



## Material Safety Data Sheet

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### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Product Identification

**Product ID:** U26  
**Product Name:** CARDINAL RED  
**Product Use:** Paint product.  
**Print date:** 29/Jan/2015  
**Revision Date:** 29/Jan/2015

#### Company Identification

The Valspar Corporation  
PO Box 1461  
Minneapolis, MN 55440

**Manufacturer's Phone:** 1-612-851-7000

**24-Hour Medical Emergency Phone:** 1-888-345-5732

### 2. HAZARDS IDENTIFICATION

#### Primary Routes of Exposure:

Inhalation  
Ingestion  
Skin absorption

#### Eye Contact:

- Moderate eye irritation
- Risk of serious damage to eyes.

#### Skin Contact:

- Causes skin irritation.
- May cause defatting of the skin.
- Dermatitis
- Can be absorbed through skin.

#### Ingestion:

- Irritation of the mouth, throat, and stomach.

- Harmful if swallowed.
- Aspiration hazard if swallowed - can enter lungs and cause damage.

**Inhalation:**

- Causes respiratory tract irritation.
- Harmful by inhalation.

**Target Organ and Other Health Effects:**

- Causes headache, drowsiness or other effects to the central nervous system.
- Liver injury may occur.
- Kidney injury may occur.
- Blood disorders

**This product contains ingredients that may contribute to the following potential chronic health effects:**

- Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

**Carcinogens:**

- Possible cancer hazard. Contains material which may cause cancer based on animal data.

**3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS**

| Ingredient Name<br>CAS-No.               | Approx.<br>Weight % | Chemical Name                           |
|--|---------------------|---|
| ETHYL 3-ETHOXYPROPIONATE<br>763-69-9     | 20 - 25             | Ethyl 3-ethoxypropionate                |
| BUTYL ACETATE<br>123-86-4                | 5 - 10              | n-Butyl acetate                         |
| AROMATIC NAPHTHA,<br>HEAVY<br>64742-94-5 | 5 - 10              | Solvent naphtha, petroleum, heavy arom. |
| TITANIUM DIOXIDE<br>13463-67-7           | 1 - 5               | Titanium dioxide                        |
| PROPRIETARY RESIN                        | 1 - 5               | PROPRIETARY RESIN                       |
| PROPRIETARY ADDITIVE                     | 1 - 5               | PROPRIETARY ADDITIVE                    |
| AROMATIC NAPHTHA,<br>LIGHT<br>64742-95-6 | 1 - 5               | Petroleum naphtha, light aromatic       |
| NAPHTHALENE<br>91-20-3                   | 1 - 5               | Naphthalene                             |
| ETHYLBENZENE<br>100-41-4                 | .1 - 1              | Ethyl benzene                           |

If this section is blank there are no hazardous components per OSHA guidelines.

**4. FIRST AID MEASURES**

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### Eye Contact:

Remove any contact lenses and open eyes wide apart. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If medical assistance is not immediately available, flush an additional 15 minutes. Get medical attention immediately.

### Skin Contact:

Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention, if symptoms develop or persist.

### Ingestion:

Rinse mouth with water. Give one or two glasses of water. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to prevent aspiration. Get medical attention immediately.

### Inhalation:

Move injured person into fresh air and keep person calm under observation. Get medical attention immediately.

### Medical conditions aggravated by exposure:

Any respiratory or skin condition.

## 5. FIRE FIGHTING MEASURES

|                                  |   |
|----------------------------------|---|
| Flash point (Fahrenheit):        | 45  |
| Flash point (Celsius):           | 7   |
| Lower explosive limit (%):       | 1   |
| Upper explosive limit (%):       | 13  |
| Autoignition temperature:        | not determined  |
| Sensitivity to impact:           | no  |
| Sensitivity to static discharge: | Subject to static discharge hazards. Please see bonding and grounding information in Section 7. |
| Hazardous combustion products:   | See Section 10.   |

### Unusual fire and explosion hazards:

None known.

### Extinguishing media:

Carbon dioxide, dry chemical, foam and/or water fog.

### Fire fighting procedures:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Keep containers and surroundings cool with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

### Action to be taken if material is released or spilled:

Ventilate the area. Avoid breathing dust or vapor. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 7, "Handling and Storage", for proper container and storage procedures. Remove all sources of ignition. Soak up with inert absorbent material. Use only non-sparking tools. Avoid contact with eyes.

## 7. HANDLING AND STORAGE

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### Precautions to be taken in handling and storage:

Keep away from heat, sparks and open flame. - No smoking. Keep container closed when not in use. Do not store above 120 degrees F. (49 degrees C). Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times.

## 8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

### Personal Protective Equipment

#### Eye and face protection:

Wear chemical goggles with splash shields or face shield. Contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury in case of exposure.

#### Skin protection:

Appropriate chemical resistant gloves should be worn.

#### Other Personal Protection Data:

To prevent skin contact wear protective clothing covering all exposed areas. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Respiratory protection:

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

#### Ventilation

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas. Ovens used for curing should contain a fresh air purge to prevent vapours from accumulating and creating a possible explosive mixture. Where the product is used in a hazardous classified area, use explosion-proof electrical/ventilating/lighting/equipment.

### Exposure Guidelines

#### OSHA Permissible Exposure Limits (PEL's)

| Ingredient Name<br>CAS-No.     | Approx.<br>Weight % | TWA (final)                              | Ceilings limits (final) | Skin designations |
|--------------------------------|---------------------|--|-------------------------|-------------------|
| BUTYL ACETATE<br>123-86-4      | 5 - 10              | 150 ppm TWA<br>710 mg/m <sup>3</sup> TWA |                         |                   |
| TITANIUM DIOXIDE<br>13463-67-7 | 1 - 5               | 15 mg/m <sup>3</sup> TWA dust<br>total   |                         |                   |
| NAPHTHALENE<br>91-20-3         | 1 - 5               | 10 ppm TWA<br>50 mg/m <sup>3</sup> TWA   |                         |                   |
| ETHYLBENZENE<br>100-41-4       | .1 - 1              | 100 ppm TWA<br>435 mg/m <sup>3</sup> TWA |                         |                   |

#### ACGIH Threshold Limit Value (TLV's)

| Ingredient Name<br>CAS-No.     | Approx.<br>Weight % | TWA                      | STEL         | Ceiling limits | Skin designations |
|--------------------------------|---------------------|--------------------------|--------------|----------------|-------------------|
| BUTYL ACETATE<br>123-86-4      | 5 - 10              | 150 ppm TWA              | 200 ppm STEL |                |                   |
| TITANIUM DIOXIDE<br>13463-67-7 | 1 - 5               | 10 mg/m <sup>3</sup> TWA |              |                |                   |

| Ingredient Name<br>CAS-No. | Approx.<br>Weight % | TWA         | STEL         | Ceiling limits | Skin<br>designations                      |
|----------------------------|---------------------|-------------|--------------|----------------|---|
| NAPHTHALENE<br>91-20-3     | 1 - 5               | 10 ppm TWA  | 15 ppm STEL  |                | CAN BE<br>ABSORBED<br>THROUGH THE<br>SKIN |
| ETHYLBENZENE<br>100-41-4   | .1 - 1              | 100 ppm TWA | 125 ppm STEL |                |   |

## 9. PHYSICAL PROPERTIES

|   |                               |
|---|-------------------------------|
| Odor:                                   | Normal for this product type. |
| Physical State:                         | liquid                        |
| pH:                                     | not determined                |
| Vapor pressure:                         | 12 mmHg @ 68°F (20°C)         |
| Vapor density (air = 1.0):              | 5.0                           |
| Boiling point:                          | 257°F (125°C)                 |
| Solubility in water:                    | not determined                |
| Coefficient of water/oil distribution:  | not determined                |
| Density (lbs per US gallon):            | 8.88                          |
| Specific Gravity:                       | 1.06                          |
| Evaporation rate (butyl acetate = 1.0): | 1                             |
| Flash point (Fahrenheit):               | 45                            |
| Flash point (Celsius):                  | 7                             |
| Lower explosive limit (%):              | 1                             |
| Upper explosive limit (%):              | 13                            |
| Autoignition temperature:               | not determined                |

## 10. STABILITY AND REACTIVITY

|                                   |   |
|-----------------------------------|---|
| Stability:                        | Stable under normal conditions.                         |
| Conditions to Avoid:              | Heat.   |
| Incompatibility:                  | Strong oxidizing agents                                 |
| Hazardous Polymerization:         | None anticipated.                                       |
| Hazardous Decomposition Products: | Carbon monoxide and carbon dioxide. Nitrogen compounds. |

**Sensitivity to static discharge:** Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

## 11. TOXICOLOGICAL INFORMATION

| Ingredient Name<br>CAS-No.               | Approx.<br>Weight % | NIOSH - Selected LD50s and LC50s   |
|--|---------------------|--|
| ETHYL 3-<br>ETHOXYPROPIONATE<br>763-69-9 | 20 - 25             | = 10 mL/kg Dermal LD50 Rabbit<br>= 3200 mg/kg Oral LD50 Rat  |
| BUTYL ACETATE<br>123-86-4                | 5 - 10              | = 10768 mg/kg Oral LD50 Rat<br>= 390 ppm Inhalation LC50 Rat 4 h<br>> 17600 mg/kg Dermal LD50 Rabbit             |
| AROMATIC NAPHTHA,<br>HEAVY<br>64742-94-5 | 5 - 10              | > 2000 mg/kg Dermal LD50 Rabbit<br>> 5000 mg/kg Oral LD50 Rat<br>> 590 mg/m <sup>3</sup> Inhalation LC50 Rat 4 h |
| TITANIUM DIOXIDE<br>13463-67-7           | 1 - 5               | > 10000 mg/kg Oral LD50 Rat  |

## 11. TOXICOLOGICAL INFORMATION

|  |        |  |
|--|--------|--|
| PROPRIETARY ADDITIVE                     | 1 - 5  | = 31.4 g/kg Oral LD50 Rat  |
| AROMATIC NAPHTHA,<br>LIGHT<br>64742-95-6 | 1 - 5  | = 3400 ppm Inhalation LC50 Rat 4 h<br>= 8400 mg/kg Oral LD50 Rat<br>> 2000 mg/kg Dermal LD50 Rabbit<br>> 5.2 mg/L Inhalation LC50 Rat 4 h    |
| NAPHTHALENE<br>91-20-3                   | 1 - 5  | = 490 mg/kg Oral LD50 Rat<br>> 20 g/kg Dermal LD50 Rabbit<br>> 2500 mg/kg Dermal LD50 Rat<br>> 340 mg/m <sup>3</sup> Inhalation LC50 Rat 1 h |
| ETHYLBENZENE<br>100-41-4                 | .1 - 1 | = 15354 mg/kg Dermal LD50 Rabbit<br>= 17.2 mg/L Inhalation LC50 Rat 4 h<br>= 3500 mg/kg Oral LD50 Rat  |

### Mutagens/Teratogens/Carcinogens:

Possible cancer hazard. Contains material which may cause cancer based on animal data.

Contains ethylbenzene, which has been determined by NTP to be an animal carcinogen with no known relevance to humans. IARC has classified ethylbenzene as possibly carcinogenic to humans (2b) on the basis of sufficient evidence of carcinogenicity in laboratory animals but inadequate evidence of cancer in humans. Contains TIO2 which is listed by IARC as a possible human carcinogen (Group 2B) based on animal data. Neither long term animal studies, nor human epidemiology studies of workers exposed to TIO2 provide an adequate basis to conclude TIO2 is carcinogenic. TIO2 is not classified as a carcinogen by NTP, U.S. OSHA, or the U.S. EPA.

| Ingredient Name<br>CAS-No. | Approx.<br>Weight % | California Prop 65 - Reproductive<br>(Female) | California Prop 65 - Carcinogen              |
|----------------------------|---------------------|---|--|
| NAPHTHALENE<br>91-20-3     | 1 - 5               |   | Listed. initial date 4/19/02 -<br>carcinogen |
| ETHYLBENZENE<br>100-41-4   | .1 - 1              |   | Listed. initial date 6/11/04 -<br>carcinogen |

| Ingredient Name<br>CAS-No.     | Approx.<br>Weight % | IARC Group 1 - Human<br>Evidence | IARC Group 2A - Limited<br>Human Data | IARC Group 2B -<br>Sufficient Animal Data |
|--------------------------------|---------------------|----------------------------------|---------------------------------------|---|
| TITANIUM DIOXIDE<br>13463-67-7 | 1 - 5               |                                  |                                       | Monograph 47 [1989]                       |
| NAPHTHALENE<br>91-20-3         | 1 - 5               |                                  |                                       | Monograph 82 [2002]                       |
| ETHYLBENZENE<br>100-41-4       | .1 - 1              |                                  |                                       | Monograph 77 [2000]                       |

| Ingredient Name<br>CAS-No. | Approx.<br>Weight % | NTP Known Carcinogens | NTP Suspect Carcinogens                            |
|----------------------------|---------------------|-----------------------|--|
| NAPHTHALENE<br>91-20-3     | 1 - 5               |                       | Reasonably Anticipated To Be A<br>Human Carcinogen |

| Ingredient Name<br>CAS-No.     | Approx.<br>Weight % | OSHA - Hazard<br>Communication<br>Carcinogens | OSHA - Specifically<br>Regulated Carcinogens | ACGIH Carcinogens |
|--------------------------------|---------------------|---|--|-------------------|
| TITANIUM DIOXIDE<br>13463-67-7 | 1 - 5               | Present                                       |  |                   |
| NAPHTHALENE<br>91-20-3         | 1 - 5               | Present                                       |  |                   |

| Ingredient Name<br>CAS-No. | Approx.<br>Weight % | OSHA - Hazard<br>Communication<br>Carcinogens | OSHA - Specifically<br>Regulated Carcinogens | ACGIH Carcinogens  |
|----------------------------|---------------------|---|--|--|
| ETHYLBENZENE<br>100-41-4   | .1 - 1              | Present                                       |  | A3 Confirmed Animal<br>Carcinogen with<br>Unknown Relevance to<br>Humans |

## 12. ECOLOGICAL DATA

No information on ecology is available.

## 13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

## 14. TRANSPORTATION INFORMATION

### U.S. Department of Transportation

|                       |        |
|-----------------------|--------|
| UN ID Number (msds):  | UN1263 |
| Proper Shipping Name: | PAINT  |
| Hazard Class:         | 3      |
| Packing Group:        | II     |

### U.S Hazmat and/or International DG shipment exceptions

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

### Reportable Quantity Description:

### International Air Transport Association (IATA):

|                       |        |
|-----------------------|--------|
| UN/ID No:             | UN1263 |
| Proper shipping name: | Paint  |
| Hazard Class:         | 3      |
| Packing Group:        | II     |

### International Maritime Organization (IMO):

|                       |        |
|-----------------------|--------|
| UN/ID No:             | UN1263 |
| Proper shipping name: | PAINT  |
| Hazard Class:         | 3      |
| Packing Group:        | II     |
| Marine Pollutant      | No     |

## 15. REGULATORY INFORMATION

### U.S. FEDERAL REGULATIONS:

| Ingredient Name<br>CAS-No. | Approx.<br>Weight % | SARA 302 | SARA 313  | CERCLA RQ in lbs. |
|----------------------------|---------------------|----------|---|-------------------|
| BUTYL ACETATE<br>123-86-4  | 5 - 10              |          |   | 5000              |
| NAPHTHALENE<br>91-20-3     | 1 - 5               |          | form R reporting required<br>for 1.0% de minimis<br>concentration | 100               |

| Ingredient Name<br>CAS-No. | Approx.<br>Weight % | SARA 302 | SARA 313  | CERCLA RQ in lbs. |
|----------------------------|---------------------|----------|---|-------------------|
| ETHYLBENZENE<br>100-41-4   | .1 - 1              |          | form R reporting required<br>for 1.0% de minimis<br>concentration | 1000              |

**SARA 311/312 Hazard Class:**

Acute: yes  
Chronic: yes  
Flammability: yes  
Reactivity: no  
Sudden Pressure: no

**U.S. STATE REGULATIONS:**

**Right to Know:**

The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

**Pennsylvania Right To Know:**

BUTYL ACETATE 123-86-4  
PROPRIETARY RESIN Trade Secret  
ETHYL 3-ETHOXYPROPIONATE 763-69-9  
AROMATIC NAPHTHA, HEAVY 64742-94-5  
PROPRIETARY ADDITIVE Trade Secret  
AROMATIC NAPHTHA, LIGHT 64742-95-6  
NAPHTHALENE 91-20-3  
TITANIUM DIOXIDE 13463-67-7

**Additional Non-Hazardous Materials**

PROPRIETARY RESIN Trade Secret  
PROPRIETARY RESIN Trade Secret  
PROPRIETARY COLOR PIGMENT Trade Secret

**California Proposition 65:**

WARNING: This product contains chemicals known to the State of California to cause cancer.

**Rule 66 status of product** Photochemically reactive.

**INTERNATIONAL REGULATIONS - Chemical Inventories**

**US TSCA Inventory:**

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

**Canada Domestic Substances List:**

All components of this product are listed on the Domestic Substances List.

**16. OTHER INFORMATION**

**HMIS Codes**

**Health:** 2\*  
**Flammability:** 3  
**Reactivity:** 1  
**PPE:** X - See Section 8 for Personal Protective Equipment (PPE).

**Abbreviations:**

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH - National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ - Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

**Disclaimer:**

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.

**Preparation Information:**

|                |                               |
|----------------|-------------------------------|
| Prepared By:   | Regulatory Affairs Department |
| Print date:    | 29/Jan/2015                   |
| Revision Date: | 29/Jan/2015                   |