

# Red Vigor

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : Red Vigor  
Product code : M77699

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

JR Simplot Company  
P.O. Box 70013  
Boise, ID 83707  
T 1-208-336-2110

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC 1-800-424-9300

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Skin corrosion/irritation, Category 2 H315  
Serious eye damage/eye irritation, Category 2B H320

Full text of H statements : see section 16

#### 2.2. Label elements

##### GHS-US labelling

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) : Warning  
Hazard statements (GHS-US) : H315 - Causes skin irritation  
H320 - Causes eye irritation  
Precautionary statements (GHS-US) : P264 - Wash hands, forearms and face thoroughly after handling  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P302+P352 - If on skin: Wash with plenty of water/...  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P321 - Specific treatment (see supplemental first aid instruction on this label)  
P332+P313 - If skin irritation occurs: Get medical attention  
P337+P313 - If eye irritation persists: Get medical attention  
P362 - Take off contaminated clothing and wash before reuse

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

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| Name                | Product identifier              | % | GHS-US classification  |
|---------------------|---------------------------------|---|--|
| Water               | (CAS No) 7732-18-5              |   | Not classified   |
| Iron EDDHSA         | (CAS No) 57368-07-7/642045-40-7 |   | Acute Tox. 4 (Dermal), H312<br>Skin Irrit. 2, H315<br>Eye Irrit. 2B, H320  |
| Inert Compounds     |                                 |   | Not classified   |
| cobalt(II)carbonate | (CAS No) 513-79-1               |   | Acute Tox. 4 (Oral), H302<br>Resp. Sens. 1, H334<br>Skin Sens. 1, H317<br>Muta. 2, H341<br>Carc. 2, H351<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |

Full text of H-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Allow breathing of fresh air. Allow the victim to rest.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

- Reactivity : Stable.

#### 5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### cobalt(II)carbonate (513-79-1)

Not applicable

##### Water (7732-18-5)

Not applicable

##### Inert Compounds

Not applicable

##### Iron EDDHSA (57368-07-7/642045-40-7)

Not applicable

#### 8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Respiratory protection : Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid  
Appearance : Liquid.  
Colour : No data available on colour  
Odour : Not listed  
Odour threshold : No data available  
pH : 8  
Melting point : No data available  
Freezing point : No data available  
Boiling point : > 100 °C  
Flash point : No data available  
Relative evaporation rate (butylacetate=1) : No data available  
Flammability (solid, gas) : No data available  
Explosive limits : No data available  
Explosive properties : No data available  
Oxidising properties : No data available  
Vapour pressure : No data available  
Relative density : No data available  
Relative vapour density at 20 °C : No data available

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|                           |   |
|---------------------------|---|
| Solubility                | : Soluble.<br>Water: Solubility in water of component(s) of the mixture :<br>• cobalt(II)carbonate: 0.00014 g/100ml |
| Log Pow                   | : No data available   |
| Auto-ignition temperature | : No data available   |
| Decomposition temperature | : No data available   |
| Viscosity                 | : No data available   |
| Viscosity, kinematic      | : No data available   |
| Viscosity, dynamic        | : No data available   |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable.

### 10.2. Chemical stability

Stable. Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Extremely high temperatures. Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| <b>cobalt(II)carbonate (513-79-1)</b> |                          |
|---------------------------------------|--------------------------|
| LD50 oral rat                         | 640 mg/kg (Rat)          |
| ATE US (oral)                         | 640.000 mg/kg bodyweight |

| <b>Iron EDDHSA (57368-07-7/642045-40-7)</b> |                           |
|---|---------------------------|
| LD50 dermal rat                             | 1600 mg/kg                |
| ATE US (dermal)                             | 1600.000 mg/kg bodyweight |

|                                   |  |
|-----------------------------------|--|
| Skin corrosion/irritation         | : Causes skin irritation.<br>pH: 8   |
| Serious eye damage/irritation     | : Causes eye irritation.<br>pH: 8  |
| Respiratory or skin sensitisation | : Not classified   |
| Germ cell mutagenicity            | : Not classified<br>Based on available data, the classification criteria are not met |
| Carcinogenicity                   | : Not classified   |

| <b>cobalt(II)carbonate (513-79-1)</b> |                                      |
|---------------------------------------|--------------------------------------|
| IARC group                            | 2B - Possibly carcinogenic to humans |

|  |  |
|--|--|
| Reproductive toxicity                            | : Not classified<br>Based on available data, the classification criteria are not met |
| Specific target organ toxicity (single exposure) | : Not classified   |

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|   |   |
|---|---|
| Specific target organ toxicity (repeated exposure)  | : Not classified  |
| Aspiration hazard                                   | : Not classified  |
| Potential adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. |

### SECTION 12: Ecological information

#### 12.1. Toxicity

| <b>cobalt(II)carbonate (513-79-1)</b> |  |
|---------------------------------------|--|
| EC50 Daphnia 1                        | 0.021 mg/l (48 h; Daphnia magna; Cobalt ion)             |
| Threshold limit algae 1               | 0.018 mg/l (96 h; Selenastrum capricornutum; Cobalt ion) |

#### 12.2. Persistence and degradability

| <b>Red Vigor</b>                            |   |
|---|---|
| Persistence and degradability               | Not established.  |
| <b>cobalt(II)carbonate (513-79-1)</b>       |   |
| Persistence and degradability               | Biodegradability: not applicable. May cause long-term adverse effects in the environment. |
| Biochemical oxygen demand (BOD)             | Not applicable  |
| Chemical oxygen demand (COD)                | Not applicable  |
| ThOD  | Not applicable  |
| BOD (% of ThOD)                             | Not applicable  |
| <b>Water (7732-18-5)</b>                    |   |
| Persistence and degradability               | Not established.  |
| <b>Inert Compounds</b>                      |   |
| Persistence and degradability               | Not established.  |
| <b>Iron EDDHSA (57368-07-7/642045-40-7)</b> |   |
| Persistence and degradability               | Not established.  |

#### 12.3. Bioaccumulative potential

| <b>Red Vigor</b>                            |   |
|---|---|
| Bioaccumulative potential                   | Not established.                                  |
| <b>cobalt(II)carbonate (513-79-1)</b>       |   |
| Log Pow                                     | -1.32 (Estimated value)                           |
| Bioaccumulative potential                   | Bioaccumulation: not applicable. Not established. |
| <b>Water (7732-18-5)</b>                    |   |
| Bioaccumulative potential                   | Not established.                                  |
| <b>Inert Compounds</b>                      |   |
| Bioaccumulative potential                   | Not established.                                  |
| <b>Iron EDDHSA (57368-07-7/642045-40-7)</b> |   |
| Bioaccumulative potential                   | Not established.                                  |

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

|                              |  |
|------------------------------|--|
| Effect on the global warming | : No known ecological damage caused by this product. |
| Other information            | : Avoid release to the environment.                  |

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

|                                |   |
|--------------------------------|---|
| Waste disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations. |
|--------------------------------|---|

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Ecology - waste materials

: Avoid release to the environment.

### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT

Not regulated for transport

#### TDG

No additional information available

#### Transport by sea

No additional information available

#### Air transport

No additional information available

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

##### Red Vigor

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

| Inert Compounds | CAS No                        | % |
|-----------------|-------------------------------|---|
| Iron EDDHSA     | CAS No 57368-07-7/642045-40-7 | % |

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### 15.2. International regulations

##### CANADA

No additional information available

##### EU-Regulations

No additional information available

##### National regulations

No additional information available

#### 15.3. US State regulations

No additional information available

### SECTION 16: Other information

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information

: None.

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### Full text of H-statements:

|      |   |
|------|---|
| H302 | Harmful if swallowed  |
| H312 | Harmful in contact with skin  |
| H315 | Causes skin irritation  |
| H317 | May cause an allergic skin reaction                                       |
| H320 | Causes eye irritation   |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled |
| H341 | Suspected of causing genetic defects                                      |
| H351 | Suspected of causing cancer   |
| H400 | Very toxic to aquatic life  |
| H410 | Very toxic to aquatic life with long lasting effects                      |

### SDS US (GHS HazCom 2012)

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