

## SAFETY DATA SHEET

Preparation Date: 10/10/2017

Revision Date: 10/10/2017

Revision Number: G1

### 1. IDENTIFICATION

#### Product identifier

**Product code:** S-595  
**Product Name:** SULFO ORANGE, 0.04 PERCENT (W/V) INDICATOR SOLUTION

#### Other means of identification

**Synonyms:** No information available  
**CAS #:** Mixture  
**RTECS #** Not available  
**CI#:** Not available

#### Recommended use of the chemical and restrictions on use

**Recommended use:** No information available.  
**Uses advised against** No information available

**Supplier:** Spectrum Chemical Mfg. Corp  
14422 South San Pedro St.  
Gardena, CA 90248  
(310) 516-8000

**Order Online At:** <https://www.spectrumchemical.com>

**Emergency telephone number** Chemtrec 1-800-424-9300

**Contact Person:** Martin LaBenz (West Coast)

**Contact Person:** Ibad Tirmiz (East Coast)

### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

#### Label elements

Not classified

#### Hazards not otherwise classified (HNOC)

Not Applicable

#### Other hazards

Not available

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Components                                       | CAS-No.   | Weight % |
|--|-----------|----------|
| Water  | 7732-18-5 | 99.92    |
| Tropaeolin O                                     | 547-57-9  | 0.04     |
| Sodium Hydroxide                                 | 1310-73-2 | 0.02     |
| Ethylenediaminetetraacetic Acid Tetrasodium Salt | 64-02-8   | 0.02     |

### 4. FIRST AID MEASURES

#### First aid measures

- General Advice:** National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.
- Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops.
- Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.
- Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

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

- Symptoms** May cause eye/skin irritation  
Ingestion may cause nausea, vomiting, and diarrhea  
May cause digestive (gastrointestinal) tract irritation

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

- Notes to Physician:** Treat symptomatically.

#### Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

### 5. FIRE-FIGHTING MEASURES

#### Extinguishing Media

- Suitable Extinguishing Media:** The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.

- Unsuitable Extinguishing Media:** No information available.

#### Specific hazards arising from the chemical

- Hazardous Combustion Products:** No information available.

**Specific hazards:** No information available.

**Special Protective Actions for Firefighters**

**Specific Methods:** No information available.

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

**6. ACCIDENTAL RELEASE MEASURES**

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

**Personal Precautions:** Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas.

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

**Methods for containment** Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth). In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

**Methods for cleaning up** Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Clean contaminated surface thoroughly.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Technical Measures/Precautions:**

Use only in area provided with appropriate exhaust ventilation. Keep away from incompatible materials.

**Safe Handling Advice**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe vapors or spray mist. Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Technical Measures/Storage Conditions:**

Keep container tightly closed. Keep in a well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

**Incompatible Materials:**

No information available

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**National occupational exposure limits**

**United States**

| Components | CAS-No.   | OSHA | NIOSH | ACGIH | AIHA WEEL |
|------------|-----------|------|-------|-------|-----------|
| Water      | 7732-18-5 | None | None  | None  | None      |

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|  |           |                         |                             |                             |      |
|--|-----------|-------------------------|-----------------------------|-----------------------------|------|
| Tropaeolin O                                     | 547-57-9  | None                    | None                        | None                        | None |
| Sodium Hydroxide                                 | 1310-73-2 | 2 mg/m <sup>3</sup> TWA | 2 mg/m <sup>3</sup> Ceiling | 2 mg/m <sup>3</sup> Ceiling | None |
| Ethylenediaminetetraacetic Acid Tetrasodium Salt | 64-02-8   | None                    | None                        | None                        | None |

### Canada

| Components                                       | CAS-No.   | Canada - Alberta            | Canada - British Columbia   | Canada - Ontario            | Canada - Quebec             |
|--|-----------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Water  | 7732-18-5 | None                        | None                        | None                        | None                        |
| Tropaeolin O                                     | 547-57-9  | None                        | None                        | None                        | None                        |
| Sodium Hydroxide                                 | 1310-73-2 | 2 mg/m <sup>3</sup> Ceiling | 2 mg/m <sup>3</sup> Ceiling | 2 mg/m <sup>3</sup> Ceiling | 2 mg/m <sup>3</sup> Ceiling |
| Ethylenediaminetetraacetic Acid Tetrasodium Salt | 64-02-8   | None                        | None                        | None                        | None                        |

### Australia and Mexico

| Components                                       | CAS-No.   | Australia | Mexico                      |
|--|-----------|-----------|-----------------------------|
| Water  | 7732-18-5 | None      | None                        |
| Tropaeolin O                                     | 547-57-9  | None      | None                        |
| Sodium Hydroxide                                 | 1310-73-2 | None      | 2 mg/m <sup>3</sup> Ceiling |
| Ethylenediaminetetraacetic Acid Tetrasodium Salt | 64-02-8   | None      | None                        |

### Appropriate engineering controls

#### Engineering measures to reduce exposure:

Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

### Individual protection measures, such as personal protective equipment

#### Personal Protective Equipment

#### Eye protection:

Goggles

#### Skin and body protection:

Long sleeved clothing  
Chemical resistant apron  
Gloves

#### Respiratory protection:

Respiratory protection is not necessary for normal handling. Good room ventilation or use of local exhaust (fume hood) is sufficient. Use a vapor respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapor, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.

#### Hygiene measures:

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Physical state:

Liquid

#### Appearance:

Clear.

#### Color:

Red-orange. Orange-Yellow.

#### Odor:

No information available.

#### Taste

No information available.

#### Formula:

No information available

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0.04 PERCENT (W/V) INDICATOR  
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|  |   |  |
|--|---|--|
| <b>Molecular/Formula weight:</b><br>No information available   | <b>Flammability:</b><br>No information available                            | <b>Flashpoint (°C/°F):</b><br>No information available.              |
| <b>Flash Point Tested according to:</b><br>Not available       | <b>Autoignition Temperature (°C/°F):</b><br>No information available        | <b>Lower Explosion Limit (%):</b><br>No information available        |
| <b>Upper Explosion Limit (%):</b><br>No information available  | <b>Melting point/range(°C/°F):</b><br>No information available              | <b>Decomposition temperature(°C/°F):</b><br>No information available |
| <b>Boiling point/range(°C/°F):</b><br>No information available | <b>Bulk density:</b><br>No information available                            | <b>Density (g/cm3):</b><br>No information available                  |
| <b>Specific gravity:</b><br>1.0                                | <b>pH:</b><br>No information available                                      | <b>Vapor pressure @ 20°C (kPa):</b><br>No information available      |
| <b>Evaporation rate:</b><br>No information available           | <b>Vapor density:</b><br>No information available                           | <b>VOC content (g/L):</b><br>No information available                |
| <b>Odor threshold (ppm):</b><br>No information available       | <b>Partition coefficient (n-octanol/water):</b><br>No information available | <b>Viscosity:</b><br>No information available                        |
| <b>Miscibility:</b><br>No information available                | <b>Solubility:</b><br>Freely soluble in water                               |  |

## 10. STABILITY AND REACTIVITY

**Reactivity**  
No information available

### Chemical stability

**Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Incompatible materials.

**Incompatible Materials:** No information available

**Hazardous decomposition products:** No information available.

### Other Information

**Corrosivity:** No information available

**Special Remarks on Corrosivity:** No information available

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Principal Routes of Exposure:**  
Skin. Ingestion. Inhalation.

### Acute Toxicity

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## Component Information

|         |           |
|---------|-----------|
| Water   |           |
| CAS-No. | 7732-18-5 |

**LD50/oral/rat** = > 90 mL/kg Oral LD50 Rat  
**LD50/oral/mouse** = No information available  
**LD50/dermal/rabbit** = No information available  
**LD50/dermal/rat** = No information available  
**LC50/inhalation/rat** = No information available  
**LC50/inhalation/mouse** = No information available  
**Other LD50 or LC50information** = No information available

|              |          |
|--------------|----------|
| Tropaeolin O |          |
| CAS-No.      | 547-57-9 |

**LD50/oral/rat** = No information available  
**LD50/oral/mouse** = No information available  
**LD50/dermal/rabbit** = No information available  
**LD50/dermal/rat** = No information available  
**LC50/inhalation/rat** = No information available  
**LC50/inhalation/mouse** = No information available  
**Other LD50 or LC50information** = No information available

|                  |           |
|------------------|-----------|
| Sodium Hydroxide |           |
| CAS-No.          | 1310-73-2 |

**LD50/oral/rat** = No information available  
**LD50/oral/mouse** = No information available  
**LD50/dermal/rabbit** = 1350 mg/kg Dermal LD50Rabbit  
**LD50/dermal/rat** = No information available  
**LC50/inhalation/rat** = No information available  
**LC50/inhalation/mouse** = No information available  
**Other LD50 or LC50information** = 500 mg/kg Oral LDL(Lowest Lethal Dose) Rabbit

|  |         |
|--|---------|
| Ethylenediaminetetraacetic Acid Tetrasodium Salt |         |
| CAS-No.  | 64-02-8 |

**LD50/oral/rat** = = 1658 mg/kg Oral LD50 Rat = 10 g/kg Oral LD50 Rat  
**LD50/oral/mouse** = No information available  
**LD50/dermal/rabbit** = No information available  
**LD50/dermal/rat** = = 1658 mg/kg Oral LD50 = 10 g/kg Oral LD50  
**LC50/inhalation/rat** = No information available  
**LC50/inhalation/mouse** = No information available  
**Other LD50 or LC50information** = No information available

## Product Information

**LD50/oral/rat** =  
**VALUE- Acute Tox Oral** = No information available

**LD50/oral/mouse** =  
**Value - Acute Tox Oral** = No information available

**LD50/dermal/rabbit**  
**VALUE-Acute Tox Dermal** = No information available

**LD50/dermal/rat**  
**VALUE -Acute Tox Dermal** = No information available

**LC50/inhalation/rat**  
**VALUE-Vapor** = No information available

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VALUE-Gas = No information available  
VALUE-Dust/Mist = No information available

**LC50/Inhalation/mouse**

VALUE-Vapor = No information available  
VALUE - Gas = No information available  
VALUE - Dust/Mist = No information available

**Symptoms**

**Skin Contact:** May cause skin irritation.  
**Eye Contact:** May cause eye irritation.  
**Inhalation** May cause irritation of respiratory tract.  
**Ingestion** May cause digestive (gastrointestinal) tract irritation. Ingestion may cause nausea, vomiting, diarrhea.  
**Aspiration hazard** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Chronic Toxicity** No information available.  
**Sensitization:** No information available.  
**Mutagenic Effects:** No information available  
**Carcinogenic effects:** Not considered carcinogenic.

| Components                                       | CAS-No.   | IARC       | ACGIH - Carcinogens | NTP        | OSHA HCS - Carcinogens | Australia - Notifiable Carcinogenic Substances | Australia - Prohibited Carcinogenic Substances |
|--|-----------|------------|---------------------|------------|------------------------|--|--|
| Water  | 7732-18-5 | Not listed | Not listed          | Not listed | Not listed             | Not listed                                     | Not listed                                     |
| Tropaeolin O                                     | 547-57-9  | Not listed | Not listed          | Not listed | Not listed             | Not listed                                     | Not listed                                     |
| Sodium Hydroxide                                 | 1310-73-2 | Not listed | Not listed          | Not listed | Not listed             | Not listed                                     | Not listed                                     |
| Ethylenediaminetetraacetic Acid Tetrasodium Salt | 64-02-8   | Not listed | Not listed          | Not listed | Not listed             | Not listed                                     | Not listed                                     |

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*IARC (International Agency for Research on Cancer)*

*NTP (National Toxicology Program)*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

**Reproductive toxicity** No data is available

**Reproductive Effects:** No information available  
**Developmental Effects:** No information available  
**Teratogenic Effects:** No information available

**Specific Target Organ Toxicity**

**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Target Organs:** No information available.

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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

**Ecotoxicity effects:** Aquatic environment.

*Sodium Hydroxide - 1310-73-2*

**Freshwater Fish Species Data:** 45.4 mg/L LC50 Oncorhynchus mykiss 96 h static 1

**Water Flea Data:** 40.4 mg/L EC50 Ceriodaphnia sp. 48h

*Ethylenediaminetetraacetic Acid Tetrasodium Salt - 64-02-8*

**Freshwater Algae Data:** 1.01 mg/L EC50 Desmodesmus subspicatus 72 h

**Freshwater Fish Species Data:** 41 mg/L LC50 Lepomis macrochirus 96 h static 1 59.8 mg/L LC50 Pimephales promelas 96 h static 1

**Water Flea Data:** 610 mg/L EC50 Daphnia magna 24 h

**Persistence and degradability:** No information available

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

## 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

**Waste from residues / unused products:**

Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**

Empty containers should be taken for local recycling, recovery or waste disposal

| Components                                       | CAS-No.   | RCRA - F Series Wastes | RCRA - K Series Wastes | RCRA - P Series Wastes | RCRA - U Series Wastes |
|--|-----------|------------------------|------------------------|------------------------|------------------------|
| Water  | 7732-18-5 | None                   | None                   | None                   | None                   |
| Tropaeolin O                                     | 547-57-9  | None                   | None                   | None                   | None                   |
| Sodium Hydroxide                                 | 1310-73-2 | None                   | None                   | None                   | None                   |
| Ethylenediaminetetraacetic Acid Tetrasodium Salt | 64-02-8   | None                   | None                   | None                   | None                   |

## 14. TRANSPORT INFORMATION

**DOT**

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Class:** No information available  
**Packing group:** No information available  
**Emergency Response Guide Number:** No information available  
**Marine Pollutant:** No data available  
**DOT RQ (lbs):** No information available  
**Special Provisions:** No Information available  
**Symbol(s):** No information available  
**Description:** No information available

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**TDG (Canada)**  
**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Marine Pollutant Description:** No Information available  
 No information available

**ADR**  
**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Packing Group:** No information available  
**Subsidiary Risk:** No information available

**IMO / IMDG**  
**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Marine Pollutant** No information available

**RID**  
**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available

**ICAO**  
**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available

**IATA**  
**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**ERG Code:** No information available  
**Special Provisions** No information available

**15. REGULATORY INFORMATION**

**International Inventories**

| Components   | CAS-No.   | U.S. TSCA | KOREA KECL          | Philippines (PICCS) | Japan ENCS          | CHINA   | Australia (AICS) | EINECS-No.           |
|--------------|-----------|-----------|---------------------|---------------------|---------------------|---------|------------------|----------------------|
| Water        | 7732-18-5 | Present   | Present<br>KE-35400 | Present             | Not present         | Present | Present          | Present<br>231-791-2 |
| Tropaeolin O | 547-57-9  | Present   | Not present         | Not present         | Present<br>(5)-1454 | Present | Present          | Present<br>208-924-8 |

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|   |           |         |                     |         |                                 |         |         |                      |
|---|-----------|---------|---------------------|---------|---------------------------------|---------|---------|----------------------|
| <i>Sodium Hydroxide</i>                                 | 1310-73-2 | Present | Present<br>KE-31487 | Present | Present<br>(2)-1972,(1)-4<br>10 | Present | Present | Present<br>215-185-5 |
| <i>Ethylenediaminetetraacetic Acid Tetrasodium Salt</i> | 64-02-8   | Present | Present<br>KE-13654 | Present | Present<br>(2)-1265             | Present | Present | Present<br>200-573-9 |

## U.S. Regulations

### *Sodium Hydroxide*

**Massachusetts RTK:** Present

**New Jersey RTK Hazardous Substance List:** 1706

**New Jersey - Discharge Prevention - List of Hazardous Substances:** Present

**Pennsylvania RTK:** Environmental hazard

**Pennsylvania RTK - Environmental Hazard List** Present

**Minnesota - Hazardous Substance List:** Present

**New York Release Reporting - List of Hazardous Substances:**

1000 lb RQ

100 lb RQ

**Louisiana Reportable Quantity List for Pollutants:** 1000lbfinal RQ

454kgfinal RQ

**California Directors List of Hazardous Substances:** Present

**FDA - Food Additives Generally Recognized as Safe (GRAS):** 21 CFR 184.1763

**FDA - Direct Food Additives** 21 CFR 173.310

**FDA - 21 CFR - Total Food Additives** 155.191, 155.194, 163.110, 163.111, 163.112, 172.560, 172.814, 172.892, 173.310, 176.170, 176.180, 176.210, 177.1600, 177.2800, 184.1763, 73.85

### *Ethylenediaminetetraacetic Acid Tetrasodium Salt*

**FDA - Direct Food Additives** 21 CFR 173.310, 21 CFR 173.315

**FDA - 21 CFR - Total Food Additives** 173.310, 173.315, 175.105, 175.125, 175.300, 176.150, 176.170, 176.210, 178.1010, 178.3910

## California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

### **Chemicals Known to the State of California to Cause Cancer:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

### **Chemicals Known to the State of California to Cause Reproductive Toxicity:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

| Components                                       | CAS-No.   | Carcinogen | Developmental Toxicity | Male Reproductive Toxicity | Female Reproductive Toxicity: |
|--|-----------|------------|------------------------|----------------------------|-------------------------------|
| Water  | 7732-18-5 | Not Listed | Not Listed             | Not Listed                 | Not Listed                    |
| Tropaeolin O                                     | 547-57-9  | Not Listed | Not Listed             | Not Listed                 | Not Listed                    |
| Sodium Hydroxide                                 | 1310-73-2 | Not Listed | Not Listed             | Not Listed                 | Not Listed                    |
| Ethylenediaminetetraacetic Acid Tetrasodium Salt | 64-02-8   | Not Listed | Not Listed             | Not Listed                 | Not Listed                    |

## CERCLA/SARA

| Components  | CAS-No.   | CERCLA - Hazardous Substances and their Reportable Quantities | Section 302 Extremely Hazardous Substances and TPQs | Section 302 Extremely Hazardous Substances and RQs | Section 313 - Chemical Category | Section 313 - Reporting de minimis |
|---|-----------|---|---|--|---------------------------------|------------------------------------|
| <i>Water</i>  | 7732-18-5 | None  | None  | None   | None                            | None                               |
| <i>Tropaeolin O</i>                                     | 547-57-9  | None  | None  | None   | None                            | None                               |
| <i>Sodium Hydroxide</i>                                 | 1310-73-2 | 1000 lb final RQ<br>454 kg final RQ                           | None  | None   | None                            | None                               |
| <i>Ethylenediaminetetraacetic Acid Tetrasodium Salt</i> | 64-02-8   | None  | None  | None   | None                            | None                               |

## U.S. TSCA

| Components | CAS-No. | TSCA Section 5(a)2 - Chemicals | TSCA 8(d) -Health and Safety |
|------------|---------|--------------------------------|------------------------------|
|------------|---------|--------------------------------|------------------------------|

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|  |           | With Significant New Use Rules (SNURS) | Reporting      |
|--|-----------|--|----------------|
| Water  | 7732-18-5 | Not Applicable                         | Not Applicable |
| Tropaeolin O                                     | 547-57-9  | Not Applicable                         | Not Applicable |
| Sodium Hydroxide                                 | 1310-73-2 | Not Applicable                         | Not Applicable |
| Ethylenediaminetetraacetic Acid Tetrasodium Salt | 64-02-8   | Not Applicable                         | Not Applicable |

## Canada

### WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information: Not a dangerous product according to HPR classification criteria.

|   |  |
|---|--|
| Component<br>Water<br>7732-18-5 ( 99.92 )<br>Sodium Hydroxide<br>1310-73-2 ( 0.02 ) | WHMIS 2015 Hazard Classification<br>Not a dangerous product according to HPR classification criteria   |
| Ethylenediaminetetraacetic Acid Tetrasodium Salt<br>64-02-8 ( 0.02 )                | Corrosive to Metals - Category 1: H290 May be corrosive to metals. (potentially corrosive to metals; the supplier should be contacted for more information); Health Hazard Not Otherwise Classified - Category 1: Causes severe damage to the respiratory tract; Skin corrosion/irritation - Category 1: H314 Causes severe skin burns and eye damage.; Skin corrosion/irritation - Category 2: H315 Causes skin irritation. (0.4% in aqueous solution); Serious Eye Damage/Eye Irritation - Category 1: H318 Causes serious eye damage.; Serious Eye Damage/Eye Irritation - Category 2: H319 Causes serious eye irritation. (0.4% in aqueous solution); Specific target organ toxicity - Single exposure - Category 3: H335 May cause respiratory irritation. (0.4% in aqueous solution)<br>Serious Eye Damage/Eye Irritation - Category 2: H319 Causes serious eye irritation.; Combustible Dust - Category 1: May form combustible dust concentrations in air (factors such as combustibility and explosiveness of dusts including composition and shape and size of particles could cause substance to belong to 'Combustible dust' hazard class) |

**Canada Hazardous Products Regulation** This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

### WHMIS 1988 Hazard Class

Non-controlled

### Components

|  |  |
|--|--|
| Water  | WHMIS 1988<br>Uncontrolled product according to WHMIS classification criteria  |
| Tropaeolin O                                     | Uncontrolled product according to WHMIS classification criteria  |
| Sodium Hydroxide                                 | E including 0.04% in aqueous solution, 0.04N, 0.08%, 0.4% in aqueous solution, 2%, 2.5%, 4% in aqueous solution, 5%, 10%, 16%, 20%, 40%, 50% in aqueous solution, 8.7N |
| Ethylenediaminetetraacetic Acid Tetrasodium Salt | D2B including 39%, 50%   |

### Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

| Components       | WHMIS Ingredient Disclosure List - |
|------------------|------------------------------------|
| Sodium Hydroxide | 1 %                                |

### Inventory

| Components | CAS-No. | Canada (DSL) | Canada (NDSL) |
|------------|---------|--------------|---------------|
|            |         |              |               |

**Product code:** S-595

**Product name:** SULFO ORANGE,  
0.04 PERCENT (W/V) INDICATOR  
SOLUTION

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|  |           |         |            |
|--|-----------|---------|------------|
| Water  | 7732-18-5 | Present | Not Listed |
| Tropaeolin O                                     | 547-57-9  | Present | Not Listed |
| Sodium Hydroxide                                 | 1310-73-2 | Present | Not Listed |
| Ethylenediaminetetraacetic Acid Tetrasodium Salt | 64-02-8   | Present | Not Listed |

| Components                                       | CAS-No.   | CEPA Schedule I - Toxic Substances                          |
|--|-----------|---|
| Water  | 7732-18-5 | Not listed  |
| Tropaeolin O                                     | 547-57-9  | Not listed  |
| Sodium Hydroxide                                 | 1310-73-2 | Not listed  |
| Ethylenediaminetetraacetic Acid Tetrasodium Salt | 64-02-8   | Not listed  |
| Components                                       | CAS-No.   | CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting |
| Water  | 7732-18-5 | Not listed  |
| Tropaeolin O                                     | 547-57-9  | Not listed  |
| Sodium Hydroxide                                 | 1310-73-2 | Not listed  |
| Ethylenediaminetetraacetic Acid Tetrasodium Salt | 64-02-8   | Not listed  |

## EU Classification

### EU GHS - SV - CLP 1272/2008

| Components                                       | CAS-No.   | EU GHS - SV - CLP (1272/2008)  |
|--|-----------|--|
| Water  | 7732-18-5 |  |
| Tropaeolin O                                     | 547-57-9  |  |
| Sodium Hydroxide                                 | 1310-73-2 | Skin corrosion/irritation - Skin Corr. 1A: H314 Causes severe skin burns and eye damage. (C >= 5 %)011-002-00-6<br>Skin corrosion/irritation - Skin Corr. 1A: H314 Causes severe skin burns and eye damage. (C >= 5 %); Skin corrosion/irritation - Skin Corr. 1B: H314 Causes severe skin burns and eye damage. (2 % <= C <5 %); Skin corrosion/irritation - Skin Irrit. 2: H315 Causes skin irritation. (0.5 % <= C <2 %); Serious Eye Damage/Eye Irritation - Eye Irrit. 2: H319 Causes serious eye irritation. (0.5 % <= C <2 %)011-002-00-6 |
| Ethylenediaminetetraacetic Acid Tetrasodium Salt | 64-02-8   | Acute toxicity - Oral - Acute Tox. 4: H302 Harmful if swallowed. (Minimum classification); Serious Eye Damage/Eye Irritation - Eye Dam. 1: H318 Causes serious eye damage.607-428-00-2   |

### EU - CLP (1272/2008)

#### R-phrases(s)

not determined (not applicable)

#### S -phrase(s)

none

| Components       | CAS-No.   | Classification | Concentration Limits: | Safety Phrases       |
|------------------|-----------|----------------|-----------------------|----------------------|
| Water            | 7732-18-5 |                | No information        |                      |
| Tropaeolin O     | 547-57-9  |                | No information        |                      |
| Sodium Hydroxide | 1310-73-2 | C; R35         | 5%<=C C; R35          | S: (1/2)-26-37/39-45 |

Product code: S-595

Product name: SULFO ORANGE,  
0.04 PERCENT (W/V) INDICATOR  
SOLUTION

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|  |         |                    |   |                |
|--|---------|--------------------|---|----------------|
|  |         |                    | 2%<=C<5% C; R34<br>0.5%<=C<2% Xi;<br>R36/38 |                |
| Ethylenediaminetetraacetic Acid Tetrasodium Salt | 64-02-8 | Xn; R22<br>Xi; R41 | No information                              | S2 S26 S39 S46 |

The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Indication of danger:**

Not dangerous

**16. OTHER INFORMATION**

**Preparation Date:** 10/10/2017  
**Revision Date:** 10/10/2017  
**Prepared by:** Sonia Owen

**Disclaimer:**

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**