



**Be Right™**

# SAFETY DATA SHEET

**Issue Date** 05-Jul-2016

**Revision Date** 30-Dec-2016

**Version** 3

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## 1. IDENTIFICATION

**Product identifier**

**Product Name** Phenol Red Indicator Solution

**Other means of identification**

**Product Code(s)** 21149

**Safety data sheet number** M00349

**Synonyms**

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

**Recommended Use** Laboratory reagent. Indicator for pH.

**Uses advised against** None.

**Restrictions on use** None.

**Details of the supplier of the safety data sheet**

**Manufacturer Address**

Hach Company  
P.O.Box 389 Loveland, CO 80539 USA  
(970) 669-3050

**Emergency telephone number**

(303) 623-5716 - 24 Hour Service (515)232-2533 - 8am - 4pm CST

## 2. HAZARDS IDENTIFICATION

**Classification**

**Regulatory Status**

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

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

**Hazards not otherwise classified (HNOC)**

Not applicable

**Label elements**

**Hazard statements**

EUH210 - Safety data sheet available on request

EUH208 - May produce an allergic reaction

The product contains no substances which at their given concentration, are considered to be hazardous to health

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**Precautionary statements**

**Other Information**

Causes mild skin irritation

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substance**

Not applicable

**Mixture**

**Synonyms**

Percent ranges are used where confidential product information is applicable.

| Chemical Name   | CAS No  | Percent Range | HMRIC # |
|-----------------|---------|---------------|---------|
| 1,2-Propanediol | 57-55-6 | 40 - 50%      | -       |

**4. FIRST AID MEASURES**

**Description of first aid measures**

|                                           |                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General advice</b>                     | IF IN EYES: Flush eyes for at least 15 minutes. May cause skin irritation.                                                                                                                                                                                                                                                                                                     |
| <b>Eye contact</b>                        | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.                                                                                                                                                                                     |
| <b>Skin contact</b>                       | For minor skin contact, avoid spreading material on unaffected skin. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Remove and isolate contaminated clothing and shoes. Call a POISON CENTER or doctor if you feel unwell. If skin irritation persists, call a physician. |
| <b>Inhalation</b>                         | IF INHALED: Remove person to fresh air and keep comfortable for breathing. If symptoms persist, call a physician.                                                                                                                                                                                                                                                              |
| <b>Ingestion</b>                          | IF SWALLOWED: Rinse Mouth. If symptoms persist, call a physician.                                                                                                                                                                                                                                                                                                              |
| <b>Self-protection of the first aider</b> | Use personal protective equipment as required. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.                                                                                                                                                                                                                 |

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

**Symptoms** See Section 11: TOXICOLOGICAL INFORMATION.

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

**Note to physicians** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media**

Water. Carbon dioxide. Dry chemical.

**Unsuitable extinguishing media** Caution: Use of water spray when fighting fire may be inefficient.

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**Flammable properties**

Can burn in fire, releasing toxic vapors.

**Specific hazards arising from the chemical**

None reported.

**Hazardous combustion products**

Carbon monoxide, Carbon dioxide.

**Protective equipment and precautions 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

**U.S. Notice**

Only persons properly qualified to respond to an emergency involving hazardous substances may respond to a spill according to federal regulations (OSHA 29 CFR 1910.120(a)(v)) and per your company's emergency response plan and guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations should respond to a spill involving chemicals.

**EC Notice**

Only persons properly qualified to respond to an emergency involving hazardous substances should respond to a spill involving chemicals. See Section 13, Special Instructions for disposal assistance.

**WHMIS Notice**

Only persons properly qualified to respond to an emergency involving hazardous substances should respond to a spill involving chemicals. See Section 13, Special Instructions for disposal assistance.

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

**Personal precautions**

Evacuate personnel to safe areas. Do not touch or walk through spilled material. Ventilate affected area. Use personal protective equipment as required.

**For emergency responders**

Use personal protection recommended in Section 8.

**Environmental precautions**

**Environmental precautions**

See Section 12 for additional ecological information.

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

**Methods for containment**

Prevent further leakage or spillage if safe to do so. Dike far ahead of liquid spill for later disposal.

**Methods for cleaning up**

Neutralize spill if necessary. Soak up with inert absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Dispose of in accordance with local, state and federal regulations or laws.

**Emergency Response Guide Number**

Not applicable

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling**

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray.

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

**Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly

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labeled containers.

**Flammability class** Not applicable

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### Exposure Guidelines

| Chemical Name               | Northwest Territories OEL | Nova Scotia OEL | Nunavut OEL | Ontario TWA                                                            | Prince Edward Island OEL |
|-----------------------------|---------------------------|-----------------|-------------|------------------------------------------------------------------------|--------------------------|
| 1,2-Propanediol<br>40 - 50% | NDF                       | NDF             | NDF         | TWA: 10 mg/m <sup>3</sup><br>TWA: 50 ppm<br>TWA: 155 mg/m <sup>3</sup> | NDF                      |

**Legend** See section 16 for terms and abbreviations

### Appropriate engineering controls

**Engineering Controls** Showers  
Eyewash stations  
Ventilation systems

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

**Eye/face protection** Wear tight sealing safety goggles and/or face protection shield. Avoid contact with eyes.  
Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear protective gloves and protective clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**General Hygiene Considerations** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wear suitable gloves and eye/face protection. Wash face, hands and any exposed skin thoroughly after handling. Regular cleaning of equipment, work area and clothing is recommended. Handle in accordance with good industrial hygiene and safety practice. Avoid prolonged or repeated contact with skin. Take off all contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feeding stuffs.

### Environmental exposure controls

Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

**Physical state** Liquid

**Gas Under Pressure** Not classified according to GHS criteria

**Appearance** aqueous solution

**Color** red

**Odor** None

**Odor threshold** No data available

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| <u>Property</u>                                 | <u>Values</u>                            | <u>Remarks • Method</u>                     |
|-------------------------------------------------|------------------------------------------|---------------------------------------------|
| Molecular weight                                | No data available                        |                                             |
| pH                                              | No data available                        |                                             |
| Melting point/freezing point                    | ~ -29 °C / -20 °F                        | Estimation based on theoretical calculation |
| Boiling point / boiling range                   | 140 °C / 284 °F                          |                                             |
| Evaporation rate                                | 1.1 (water = 1)                          | Estimation based on theoretical calculation |
| Vapor pressure                                  | 20.327 mm Hg / 2.71 kPa at 25 °C / 77 °F | Estimation based on theoretical calculation |
| Vapor density (air = 1)                         | 0.62 (air = 1)                           |                                             |
| Specific gravity (water = 1 / air = 1)          | No data available                        |                                             |
| Partition Coefficient (n-octanol/water)         | Not applicable                           |                                             |
| Soil Organic Carbon-Water Partition Coefficient | Not applicable                           |                                             |
| Autoignition temperature                        | No data available                        |                                             |
| Decomposition temperature                       | No data available                        |                                             |
| Dynamic viscosity                               | No data available                        |                                             |
| Kinematic viscosity                             | No data available                        |                                             |

#### Solubility(ies)

##### Water solubility

|                                        |                         |                                     |
|----------------------------------------|-------------------------|-------------------------------------|
| <u>Water solubility classification</u> | <u>Water solubility</u> | <u>Water Solubility Temperature</u> |
| Soluble                                | > 1000 mg/L             | 25 °C / 77 °F                       |

##### Solubility in other solvents

|                      |                                  |                   |                               |
|----------------------|----------------------------------|-------------------|-------------------------------|
| <u>Chemical Name</u> | <u>Solubility classification</u> | <u>Solubility</u> | <u>Solubility Temperature</u> |
| None reported        | No information available         | No data available | No information available      |

#### Other Information

|                                                 |                                                                |
|-------------------------------------------------|----------------------------------------------------------------|
| <b>Metal Corrosivity</b>                        | Not classified as corrosive to metal according to GHS criteria |
| <b>Steel Corrosion Rate</b>                     | No data available                                              |
| <b>Aluminum Corrosion Rate</b>                  | No data available                                              |
| <b>Volatile Organic Compounds (VOC) Content</b> | See ingredients information below.                             |
| <b>Bulk density</b>                             | Not applicable                                                 |
| <b>Explosive properties</b>                     | Not classified according to GHS criteria.                      |
| <b>Explosion data</b>                           | No data available                                              |

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|                                  |                                                                                                                                        |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Upper explosion limit</b>     | No data available                                                                                                                      |
| <b>Lower explosion limit</b>     | No data available                                                                                                                      |
| <b>Flammable properties</b>      | Can burn in fire, releasing toxic vapors.                                                                                              |
| <b>Flammability Limit in Air</b> |                                                                                                                                        |
| <b>Upper flammability limit:</b> | No data available                                                                                                                      |
| <b>Lower flammability limit:</b> | No data available                                                                                                                      |
| <b>Flash point</b>               | No data available                                                                                                                      |
| <b>Method</b>                    | No information available                                                                                                               |
| <b>Oxidizing properties</b>      | Not classified according to GHS criteria.                                                                                              |
| <b>Reactivity properties</b>     | Not classified as self-reactive, pyrophoric, self-heating or emitting flammable gases in contact with water according to GHS criteria. |

## 10. STABILITY AND REACTIVITY

### Reactivity properties

Not classified as self-reactive, pyrophoric, self-heating or emitting flammable gases in contact with water according to GHS criteria

### Chemical stability

Stable under recommended storage conditions.

### Special dangers of the product

None reported

### Possibility of Hazardous Reactions

None under normal processing.

#### **Hazardous polymerization**

Hazardous polymerization does not occur.

### Conditions to avoid

Extremes of temperature and direct sunlight. Incompatible materials.

### Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

### Hazardous Decomposition Products

Carbon dioxide. Carbon monoxide.

### Explosive properties

Not classified according to GHS criteria.

#### **Upper explosion limit**

No data available

#### **Lower explosion limit**

No data available

### Autoignition temperature

No data available

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**Sensitivity to Static Discharge**

None reported

**Sensitivity to Mechanical Impact**

None reported

**11. TOXICOLOGICAL INFORMATION**

**NIOSH (RTECS) Number** None reported

**Information on Likely Routes of Exposure**

|                                                    |                                                |
|----------------------------------------------------|------------------------------------------------|
| <b>Product Information</b>                         | Causes mild skin irritation.                   |
| <b>Inhalation</b>                                  | No known effect based on information supplied. |
| <b>Eye contact</b>                                 | No known effect based on information supplied. |
| <b>Skin contact</b>                                | Causes mild skin irritation.                   |
| <b>Ingestion</b>                                   | No known effect based on information supplied. |
| <b>Aggravated Medical Conditions</b>               | Skin disorders.                                |
| <b>Toxicologically synergistic products</b>        | None known.                                    |
| <b>Toxicokinetics, metabolism and distribution</b> | See ingredients information below.             |

| <b>Chemical Name</b>                           | <b>Toxicokinetics, metabolism and distribution</b>                                                    |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| 1,2-Propanediol<br>(40 - 50%)<br>CAS#: 57-55-6 | Based on human data (oral child), large doses over prolonged period of time cause behavioral changes. |

**Product Acute Toxicity Data**

**Oral Exposure Route** No data available

**Dermal Exposure Route** No data available

**Inhalation (Dust/Mist) Exposure Route** No data available

**Inhalation (Vapor) Exposure Route** No data available

**Inhalation (Gas) Exposure Route** No data available

**Ingredient Acute Toxicity Data**

**Oral Exposure Route** If available, see data below

| <b>Chemical Name</b>                           | <b>Endpoint type</b>    | <b>Reported dose</b> | <b>Exposure time</b> | <b>Toxicological effects</b> | <b>Key literature references and sources for data</b>    |
|------------------------------------------------|-------------------------|----------------------|----------------------|------------------------------|----------------------------------------------------------|
| 1,2-Propanediol<br>(40 - 50%)<br>CAS#: 57-55-6 | Rat<br>LD <sub>50</sub> | 20000 mg/kg          | None reported        | None reported                | RTECS (Registry of Toxic Effects of Chemical Substances) |

**Dermal Exposure Route** If available, see data below

| <b>Chemical Name</b>                           | <b>Endpoint type</b>       | <b>Reported dose</b> | <b>Exposure time</b> | <b>Toxicological effects</b> | <b>Key literature references and sources for data</b>            |
|------------------------------------------------|----------------------------|----------------------|----------------------|------------------------------|------------------------------------------------------------------|
| 1,2-Propanediol<br>(40 - 50%)<br>CAS#: 57-55-6 | Rabbit<br>LD <sub>50</sub> | 20800 mg/kg          | None reported        | None reported                | IUCLID (The International Uniform Chemical Information Database) |

**Inhalation (Dust/Mist) Exposure Route** No data available

**Inhalation (Vapor) Exposure Route** If available, see data below

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**Inhalation (Gas) Exposure Route**

No data available

**Product Skin Corrosion/Irritation Data**

No data available.

**Ingredient Skin Corrosion/Irritation Data**

If available, see data below

| Chemical Name                                  | Test method          | Species | Reported dose | Exposure time | Results            | Key literature references and sources for data           |
|------------------------------------------------|----------------------|---------|---------------|---------------|--------------------|----------------------------------------------------------|
| 1,2-Propanediol<br>(40 - 50%)<br>CAS#: 57-55-6 | Standard Draize Test | Human   | 500 mg        | 7 days        | Mild skin irritant | RTECS (Registry of Toxic Effects of Chemical Substances) |
| Chemical Name                                  | Test method          | Species | Reported dose | Exposure time | Results            | Key literature references and sources for data           |
| 1,2-Propanediol<br>(40 - 50%)<br>CAS#: 57-55-6 | Standard Draize Test | Human   | 104 mg        | 72 hours      | Skin irritant      | RTECS (Registry of Toxic Effects of Chemical Substances) |

**Product Serious Eye Damage/Eye Irritation Data**

No data available.

**Ingredient Eye Damage/Eye Irritation Data**

If available, see data below

| Chemical Name                                  | Test method          | Species | Reported dose | Exposure time | Results           | Key literature references and sources for data           |
|------------------------------------------------|----------------------|---------|---------------|---------------|-------------------|----------------------------------------------------------|
| 1,2-Propanediol<br>(40 - 50%)<br>CAS#: 57-55-6 | Standard Draize Test | Rabbit  | 500 mg        | 24 hours      | Mild eye irritant | RTECS (Registry of Toxic Effects of Chemical Substances) |

**Sensitization Information**

**Product Sensitization Data**

**Skin Sensitization Exposure Route**

No data available.

**Respiratory Sensitization Exposure Route**

No data available.

**Ingredient Sensitization Data**

**Skin Sensitization Exposure Route**

If available, see data below.

**Respiratory Sensitization Exposure Route**

No data available.

**Chronic Toxicity Information**

**Product Repeat Dose Toxicity Data**

**Oral Exposure Route**

No data available.

**Dermal Exposure Route**

No data available.

**Inhalation (Dust/Mist) Exposure Route**

No data available.

**Inhalation (Vapor) Exposure Route**

No data available.

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**Inhalation (Gas) Exposure Route**

No data available.

**Ingredient Repeat Dose Toxicity Data**

**Oral Exposure Route**

No data available

**Dermal Exposure Route**

No data available

**Inhalation (Dust/Mist) Exposure Route**

No data available

**Inhalation (Vapor) Exposure Route**

If available, see data below

| Chemical Name                                  | Endpoint type           | Reported dose | Exposure time | Toxicological effects                                                                                                                                                                              | Key literature references and sources for data                 |
|------------------------------------------------|-------------------------|---------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| 1,2-Propanediol<br>(40 - 50%)<br>CAS#: 57-55-6 | Rat<br>TC <sub>Lo</sub> | 2.180 mg/L    | 90 days       | <b>Behavioral</b><br>Food intake<br><b>Biochemical</b><br>Enzyme inhibition, induction, or<br>change in blood or tissue levels<br>(dehydrogenases)<br><b>Endocrine</b><br>Changes in spleen weight | RTECS (Registry of Toxic<br>Effects of Chemical<br>Substances) |

**Inhalation (Gas) Exposure Route**

No data available

| Chemical Name   | CAS No  | ACGIH | IARC | NTP | OSHA |
|-----------------|---------|-------|------|-----|------|
| 1,2-Propanediol | 57-55-6 | -     | -    | -   | -    |

**Legend**

|                                                                                    |                |
|------------------------------------------------------------------------------------|----------------|
| ACGIH (American Conference of Governmental Industrial Hygienists)                  | Does not apply |
| IARC (International Agency for Research on Cancer)                                 | Does not apply |
| NTP (National Toxicology Program)                                                  | Does not apply |
| OSHA (Occupational Safety and Health Administration of the US Department of Labor) | Does not apply |

**Product Carcinogenicity Data**

No data available

**Oral Exposure Route**

No data available

**Dermal Exposure Route**

No data available

**Inhalation (Dust/Mist) Exposure Route**

No data available

**Inhalation (Vapor) Exposure Route**

No data available

**Inhalation (Gas) Exposure Route**

No data available

**Ingredient Carcinogenicity Data**

**Oral Exposure Route**

No data available

**Dermal Exposure Route**

No data available

**Inhalation (Dust/Mist) Exposure Route**

No data available

**Inhalation (Vapor) Exposure Route**

No data available

**Inhalation (Gas) Exposure Route**

No data available

**Product Germ Cell Mutagenicity *in vitro* Data**

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No data available.

**Ingredient Germ Cell Mutagenicity *in vitro* Data**

If available, see data below

| Chemical Name                                  | Test                 | Cell Strain        | Reported dose | Exposure time | Results                               | Key literature references and sources for data           |
|------------------------------------------------|----------------------|--------------------|---------------|---------------|---------------------------------------|----------------------------------------------------------|
| 1,2-Propanediol<br>(40 - 50%)<br>CAS#: 57-55-6 | Cytogenetic analysis | Hamster fibroblast | 32000 mg/L    | None reported | Positive test result for mutagenicity | RTECS (Registry of Toxic Effects of Chemical Substances) |

**Oral Exposure Route** No data available

**Dermal Exposure Route** No data available

**Inhalation (Dust/Mist) Exposure Route** No data available

**Inhalation (Vapor) Exposure Route** No data available

**Inhalation (Gas) Exposure Route** No data available

**Ingredient Germ Cell Mutagenicity *in vivo* Data**

**Oral Exposure Route** No data available

**Dermal Exposure Route** No data available

**Inhalation (Dust/Mist) Exposure Route** No data available

**Inhalation (Vapor) Exposure Route** No data available

**Inhalation (Gas) Exposure Route** No data available

**Oral Exposure Route** No data available

**Dermal Exposure Route** No data available

**Inhalation (Dust/Mist) Exposure Route** No data available

**Inhalation (Vapor) Exposure Route** No data available

**Inhalation (Gas) Exposure Route** No data available

**Ingredient Reproductive Toxicity Data**

**Oral Exposure Route** No data available

**Dermal Exposure Route** No data available

**Inhalation (Dust/Mist) Exposure Route** No data available

**Inhalation (Vapor) Exposure Route** No data available

**Inhalation (Gas) Exposure Route** No data available

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Based on the classification principles, not classified as hazardous to the environment.

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#### Product Ecological Data

##### **Aquatic toxicity**

**Fish** No data available

**Crustacea** No data available

**Algae** No data available

##### **Terrestrial toxicity**

**Soil** No data available

**Vertebrates** No data available

**Invertebrates** No data available

#### Ingredient Ecological Data

##### **Aquatic toxicity**

**Fish** If available, see ingredient data below

| Chemical Name                               | Exposure time | Species                    | Endpoint type    | Reported dose | Key literature references and sources for data                   |
|---------------------------------------------|---------------|----------------------------|------------------|---------------|------------------------------------------------------------------|
| 1,2-Propanediol (40 - 50%)<br>CAS#: 57-55-6 | 96 hours      | <i>Pimephales promelas</i> | LC <sub>50</sub> | 51400 mg/L    | IUCLID (The International Uniform Chemical Information Database) |

**Crustacea** If available, see ingredient data below

| Chemical Name                               | Exposure time | Species              | Endpoint type    | Reported dose | Key literature references and sources for data                   |
|---------------------------------------------|---------------|----------------------|------------------|---------------|------------------------------------------------------------------|
| 1,2-Propanediol (40 - 50%)<br>CAS#: 57-55-6 | 48 Hours      | <i>Daphnia magna</i> | LC <sub>50</sub> | 34400 mg/L    | IUCLID (The International Uniform Chemical Information Database) |

**Algae** If available, see ingredient data below

| Chemical Name                               | Exposure time | Species                          | Endpoint type    | Reported dose | Key literature references and sources for data                   |
|---------------------------------------------|---------------|----------------------------------|------------------|---------------|------------------------------------------------------------------|
| 1,2-Propanediol (40 - 50%)<br>CAS#: 57-55-6 | 96 hours      | <i>Selenastrum capricornutum</i> | EC <sub>50</sub> | 19000 mg/L    | IUCLID (The International Uniform Chemical Information Database) |

##### Terrestrial toxicity

**Soil** No data available

**Vertebrates** No data available

**Invertebrates** No data available

#### Other Information

##### Persistence and degradability

None known.

##### Product Biodegradability Data

No data available.

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**Ingredient Biodegradability Data**

No data available

**Bioaccumulation**

If available, see ingredient data below.

**Product Bioaccumulation Data**

No data available.

**Ingredient Bioaccumulation Data**

No data available

**Additional information**

**Product Information**

**Partition Coefficient (n-octanol/water)**

Not applicable

**Ingredient Information**

| Chemical Name                                  | Partition Coefficient<br>(n-octanol/water) | Method                   |
|------------------------------------------------|--------------------------------------------|--------------------------|
| 1,2-Propanediol<br>(40 - 50%)<br>CAS#: 57-55-6 | log K <sub>ow</sub> = -0.92                | No information available |

**Mobility**

Mobility in soil: High mobility. If available, see ingredient data below.

**Product Information**

**Soil Organic Carbon-Water Partition Coefficient**

Not applicable

**Ingredient Information**

| Chemical Name                                  | Soil Organic Carbon-Water Partition<br>Coefficient | Method                   |
|------------------------------------------------|----------------------------------------------------|--------------------------|
| 1,2-Propanediol<br>(40 - 50%)<br>CAS#: 57-55-6 | log K <sub>oc</sub> = -0.41                        | No information available |

**Additional information**

**Water solubility**

**Product Information**

| <u>Water solubility classification</u> | <u>Water solubility</u> | <u>Water Solubility Temperature</u> |
|----------------------------------------|-------------------------|-------------------------------------|
| Soluble                                | > 1000 mg/L             | 25 °C / 77 °F                       |

**Ingredient Information**

| Chemical Name                    | Water solubility<br>classification | Water solubility | Water solubility<br>temperature °C | Water solubility<br>temperature °F |
|----------------------------------|------------------------------------|------------------|------------------------------------|------------------------------------|
| 1,2-Propanediol<br>CAS#: 57-55-6 | Completely soluble                 | 100000 mg/L      | 20 °C                              | 68 °F                              |

**Other adverse effects**

No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

##### **Disposal of wastes**

Disposal should be in accordance with applicable regional, national, and local laws and regulations.

##### **Contaminated packaging**

Working in a well-ventilated area. Rinse three times with an appropriate solvent. Collect rinsate and dispose of according to local, state, or federal regulations. Dispose of empty container as normal trash. In the US, rinsate from empty containers is classified as hazardous waste and should be disposed of at an E.P.A. approved facility. Rinsate from empty containers may contain sufficient product to require disposal as hazardous waste in countries other than the US. Improper disposal or reuse of this container may be dangerous and illegal. Disposal should be in accordance with applicable regional, national, and local laws and regulations.

##### **Special instructions for disposal**

Dilute to 3 to 5 times the volume with cold water. Open cold water tap completely, slowly pour the material to the drain. Allow cold water to run for 5 minutes to completely flush the system.

### 14. TRANSPORT INFORMATION

##### DOT

Not regulated

##### TDG

Not regulated

##### IATA

Not regulated

##### IMDG

Not regulated

##### **Note:**

No special precautions necessary.

#### **Additional information**

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods.

If the item is not in a reagent set or kit, the classification given above applies.

If the item is part of a reagent set or kit the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

### 15. REGULATORY INFORMATION

#### National Inventories

##### **TSCA**

Complies

##### **DSL/NDSL**

Complies

**TSCA-** United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL-** Canadian Domestic Substances List/Non-Domestic Substances List

#### International Inventories

##### **EINECS/ELINCS**

Complies

##### **ENCS**

Complies

##### **IECSC**

Complies

##### **KECL**

Complies

##### **PICCS**

Complies

##### **TCSI**

Complies

##### **AICS**

Complies

##### **NZIoC**

Complies

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**EINECS/ELINCS**- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS**- Japan Existing and New Chemical Substances  
**IECSC**- China Inventory of Existing Chemical Substances  
**KECL**- Korean Existing and Evaluated Chemical Substances  
**PICCS**- Philippines Inventory of Chemicals and Chemical Substances  
**TCSI**- Taiwan Chemical Substances Inventory  
**AICS**- Australian Inventory of Chemical Substances  
**NZIoC**- New Zealand Inventory of Chemicals

### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### **SARA 311/312 Hazard Categories**

|                                          |     |
|------------------------------------------|-----|
| <b>Acute health hazard</b>               | Yes |
| <b>Chronic Health Hazard</b>             | No  |
| <b>Fire hazard</b>                       | No  |
| <b>Sudden release of pressure hazard</b> | No  |
| <b>Reactive Hazard</b>                   | No  |

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

### **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

#### **U.S. State Right-to-Know Regulations**

| Chemical Name              | New Jersey | Massachusetts | Pennsylvania |
|----------------------------|------------|---------------|--------------|
| 1,2-Propanediol<br>57-55-6 | X          | -             | X            |

#### **U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

## **16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

#### **Additional information**

#### **Global Automotive Declarable Substance List (GADSL)**

Not applicable

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**Special Comments**  
None

**NFPA and HMIS Classifications**

|             |                           |                         |                             |                                                                        |
|-------------|---------------------------|-------------------------|-----------------------------|------------------------------------------------------------------------|
| <b>NFPA</b> | <b>Health hazards - 1</b> | <b>Flammability - 0</b> | <b>Instability - 0</b>      | <b>Physical and Chemical Properties -</b>                              |
| <b>HMIS</b> | <b>Health hazards - 1</b> | <b>Flammability - 0</b> | <b>Physical hazards - 0</b> | <b>Personal protection - X</b><br>- See section 8 for more information |

**Key or legend to abbreviations and acronyms used in the safety data sheet**

|            |                                                                   |
|------------|-------------------------------------------------------------------|
| NIOSH IDLH | <i>Immediately Dangerous to Life or Health</i>                    |
| ACGIH      | ACGIH (American Conference of Governmental Industrial Hygienists) |
| NDF        | <i>no data</i>                                                    |

**Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

|      |                                 |         |                                                                                                                                                                                                                                                                                       |
|------|---------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TWA  | TWA (time-weighted average)     | STEL    | STEL (Short Term Exposure Limit)                                                                                                                                                                                                                                                      |
| MAC  | Maximum Allowable Concentration | Ceiling | Ceiling Limit Value                                                                                                                                                                                                                                                                   |
| X    | Listed                          | Vacated | These values have no official status. The only binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state regulations. |
| SKN* | Skin designation                | SKN+    | Skin sensitization                                                                                                                                                                                                                                                                    |
| RSP+ | Respiratory sensitization       | **      | Hazard Designation                                                                                                                                                                                                                                                                    |
| C    | Carcinogen                      | R       | Reproductive toxicant                                                                                                                                                                                                                                                                 |
| M    | mutagen                         |         |                                                                                                                                                                                                                                                                                       |

**Prepared By** Hach Product Compliance Department

**Issue Date** 05-Jul-2016

**Revision Date** 30-Dec-2016

**Revision Note** None

**Disclaimer**

**USER RESPONSIBILITY:** Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

**THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.**

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**End of Safety Data Sheet**