



**Be Right™**

# SAFETY DATA SHEET

Issue Date 22-Jul-2016

Revision Date 01-Nov-2015

Version 1

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## 1. IDENTIFICATION

### Product identifier

**Product Name** Phenolphthalein Solution

### Other means of identification

**Product Code(s)** 189753

**Safety data sheet number** M00649

**Synonyms**

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

**Recommended Use** 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

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

**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	>99%	-
Acetone	67-64-1	0.1 - 1%	-
Phenolphthalein	77-09-8	<0.1%	-

**4. FIRST AID MEASURES**

**Description of first aid measures**

**General advice**

IF IN EYES: Flush eyes for at least 15 minutes. May cause skin irritation.

**Eye contact**

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.

**Skin contact**

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.

**Inhalation**

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If symptoms persist, call a physician.

**Ingestion**

IF SWALLOWED: Rinse Mouth. If symptoms persist, call a physician.

**Self-protection of the first aider**

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**

Carbon dioxide. Alcohol foam. Dry chemical. Water.

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

**Flammable properties**

Can burn in fire, releasing toxic vapors.

**Specific hazards arising from the chemical**

May react violently with. Oxidizers.

**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 labeled containers.

**Flammability class** Class IIIB

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Acetone 0.1 - 1%	STEL: 500 ppm TWA: 250 ppm	TWA: 1000 ppm TWA: 2400 mg/m <sup>3</sup> (vacated) TWA: 750 ppm (vacated) TWA: 1800 mg/m <sup>3</sup> (vacated) STEL: 2400 mg/m <sup>3</sup> (vacated) STEL: 1000 ppm	IDLH: 2500 ppm TWA: 250 ppm TWA: 590 mg/m <sup>3</sup>

Chemical Name	Alberta OEL	British Columbia OEL	Manitoba OEL	New Brunswick OEL	New Foundland & Labrador OEL
Acetone 0.1 - 1%	TWA: 500 ppm TWA: 1200 mg/m <sup>3</sup> STEL: 750 ppm STEL: 1800 mg/m <sup>3</sup>	TWA: 250 ppm STEL: 500 ppm	TWA: 250 ppm STEL: 500 ppm	TWA: 500 ppm TWA: 1188 mg/m <sup>3</sup> STEL: 750 ppm STEL: 1782 mg/m <sup>3</sup>	TWA: 250 ppm STEL: 500 ppm

Chemical Name	Northwest Territories OEL	Nova Scotia OEL	Nunavut OEL	Ontario TWA	Prince Edward Island OEL
1,2-Propanediol >99%	NDF	NDF	NDF	TWA: 10 mg/m <sup>3</sup> TWA: 50 ppm TWA: 155 mg/m <sup>3</sup>	NDF
Acetone 0.1 - 1%	TWA: 500 ppm STEL: 750 ppm	STEL: 500 ppm TWA: 250 ppm	TWA: 500 ppm STEL: 750 ppm	TWA: 500 ppm STEL: 750 ppm	STEL: 500 ppm TWA: 250 ppm

Chemical Name	Quebec OEL	Saskatchewan OEL	Yukon OEL
Acetone 0.1 - 1%	TWA: 500 ppm TWA: 1190 mg/m <sup>3</sup> STEL: 1000 ppm STEL: 2380 mg/m <sup>3</sup>	TWA: 500 ppm STEL: 750 ppm	STEL: 1250 ppm STEL: 3000 mg/m <sup>3</sup> TWA: 1000 ppm TWA: 2400 mg/m <sup>3</sup>

**Other Information** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**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**

<b>Physical state</b>	Liquid		
<b>Gas Under Pressure</b>	Not classified according to GHS criteria		
<b>Appearance</b>	aqueous solution	<b>Color</b>	colorless
<b>Odor</b>	Mild hydrocarbon	<b>Odor threshold</b>	No data available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>Molecular weight</b>	No data available	
<b>pH</b>	6.1	
<b>Melting point/freezing point</b>	No data available	
<b>Boiling point / boiling range</b>	188 °C / 370 °F	
<b>Evaporation rate</b>	0.01 (water = 1)	
<b>Vapor pressure</b>	1.35 mm Hg / 0.18 kPa at 20 °C / 68 °F	Estimation based on theoretical calculation
<b>Vapor density (air = 1)</b>	2 (air = 1)	
<b>Specific gravity (water = 1 / air = 1)</b>	1.032	
<b>Partition Coefficient (n-octanol/water)</b>	Not applicable	
<b>Soil Organic Carbon-Water Partition Coefficient</b>	Not applicable	
<b>Autoignition temperature</b>	371 °C / 700 °F	
<b>Decomposition temperature</b>	No data available	
<b>Dynamic viscosity</b>	No data available	
<b>Kinematic viscosity</b>	No data available	

**Solubility(ies)**

**Water solubility**

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<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>
Acid	Soluble	> 1000 mg/L	25 °C / 77 °F

#### 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>Bulk density</b>	Not applicable
<b>Explosive properties</b>	Not classified according to GHS criteria.
<b>Explosion data</b>	Can burn in fire, releasing toxic vapors.
<b>Upper explosion limit</b>	12.6%
<b>Lower explosion limit</b>	2.6%
<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>	> 100 °C / 212 °F
<b>Method</b>	OC (open cup)
<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.

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**Conditions to avoid**

Extremes of temperature and direct sunlight. Incompatible materials.

**Incompatible materials**

Strong oxidizing agents. Strong acids. Strong bases.

**Hazardous Decomposition Products**

Heating to decomposition releases toxic fumes of carbon monoxide and carbon dioxide.

**Explosive properties**

Not classified according to GHS criteria. Can burn in fire, releasing toxic vapors.

**Upper explosion limit** 12.6%

**Lower explosion limit** 2.6%

**Autoignition temperature**

371 °C / 700 °F

**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 (>99%) CAS#: 57-55-6	Based on human data (oral child), large doses over prolonged period of time cause behavioral changes.
Acetone (0.1 - 1%) CAS#: 67-64-1	Ingestion causes gastroenteric irritation. The blood glucose levels are affected and ketosis may be fatal.
Phenolphthalein (<0.1%) CAS#: 77-09-8	Absorbed and eliminated by kidney. Excreted in bile, urine and milk..

**Product Acute Toxicity Data**

**Oral Exposure Route** No data available

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**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**

Chemical Name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
1,2-Propanediol (>99%) CAS#: 57-55-6	Rat LD <sub>50</sub>	20000 mg/kg	None reported	None reported	RTECS (Registry of Toxic Effects of Chemical Substances)
Acetone (0.1 - 1%) CAS#: 67-64-1	Rat LD <sub>50</sub>	5800 mg/kg	None reported	None reported	RTECS (Registry of Toxic Effects of Chemical Substances)
Phenolphthalein (<0.1%) CAS#: 77-09-8	Rat LD <sub>50</sub>	> 1000 mg/kg	None reported	None reported	RTECS (Registry of Toxic Effects of Chemical Substances)

**Dermal Exposure Route**

Chemical Name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
1,2-Propanediol (>99%) CAS#: 57-55-6	Rabbit LD <sub>50</sub>	20800 mg/kg	None reported	None reported	IUCLID (The International Uniform Chemical Information Database)
Acetone (0.1 - 1%) CAS#: 67-64-1	Rabbit LD <sub>50</sub>	20000 mg/kg	None reported	None reported	RTECS (Registry of Toxic Effects of Chemical Substances)

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

Chemical Name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Acetone (0.1 - 1%) CAS#: 67-64-1	Rat LC <sub>50</sub>	25.05 mg/L	4 hours	None reported	RTECS (Registry of Toxic Effects of Chemical Substances)

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

**Product Skin Corrosion/Irritation Data**

No data available.

**Ingredient Skin Corrosion/Irritation Data**

Chemical Name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
1,2-Propanediol (>99%) CAS#: 57-55-6	Standard Draize Test	Human	500 mg	7 days	Mild skin irritant	RTECS (Registry of Toxic Effects of Chemical Substances)
Acetone (0.1 - 1%)	Open Irritation Test	Rabbit	395 mg	None reported	Mild skin irritant	RTECS (Registry of Toxic Effects of Chemical Substances)



CAS#: 67-64-1						Chemical Substances)
Chemical Name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
1,2-Propanediol (>99%) CAS#: 57-55-6	Standard Draize Test	Human	104 mg	72 hours	Skin irritant	RTECS (Registry of Toxic Effects of Chemical Substances)
Acetone (0.1 - 1%) CAS#: 67-64-1	Standard Draize Test	Rabbit	500 mg	24 hours	Mild 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**

Chemical Name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
1,2-Propanediol (>99%) CAS#: 57-55-6	Standard Draize Test	Rabbit	500 mg	24 hours	Mild eye irritant	RTECS (Registry of Toxic Effects of Chemical Substances)
Acetone (0.1 - 1%) CAS#: 67-64-1	Standard Draize Test	Rabbit	20 mg	None reported	Corrosive to eyes	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
Acetone (0.1 - 1%) CAS#: 67-64-1	Standard Draize Test	Human	186300 ppm	None reported	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** No data available.

**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.

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

**Ingredient Repeat Dose Toxicity Data**

Oral Exposure Route If available, see data below

Dermal Exposure Route If available, see data below

Inhalation (Dust/Mist) Exposure Route If available, see data below

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 (>99%) CAS#: 57-55-6	Rat TC <sub>Lo</sub>	2.180 mg/L	90 days	<b>Behavioral</b> Food intake <b>Biochemical</b> Enzyme inhibition, induction, or change in blood or tissue levels (dehydrogenases) <b>Endocrine</b> Changes in spleen weight	RTECS (Registry of Toxic Effects of Chemical Substances)

Inhalation (Gas) Exposure Route No data available

Chemical Name	CAS No	ACGIH	IARC	NTP	OSHA
1,2-Propanediol	57-55-6	-	-	-	-
Acetone	67-64-1	-	-	-	-
Phenolphthalein	77-09-8	-	Group 2B	Reasonably Anticipated	X

**Legend**

<b>ACGIH (American Conference of Governmental Industrial Hygienists)</b>	Does not apply
<b>IARC (International Agency for Research on Cancer)</b>	Group 2B - Possibly Carcinogenic to Humans
<b>NTP (National Toxicology Program)</b>	Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen
<b>OSHA (Occupational Safety and Health Administration of the US Department of Labor)</b>	X - Present

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 *invitro* Data**

No data available.

**Ingredient Germ Cell Mutagenicity *invitro* 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 (>99%) 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)
Acetone (0.1 - 1%) CAS#: 67-64-1	Cytogenetic analysis	Hamster fibroblast	40000 mg/kg	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 *invivo* 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** If available, see data below

Chemical Name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Acetone (0.1 - 1%) CAS#: 67-64-1	Rat TD <sub>Lo</sub>	273000 mg/kg	13 weeks	<b>Paternal Effects</b> Spermatogenesis (including genetic material, sperm morphology, motility, and count)	RTECS (Registry of Toxic Effects of Chemical Substances)

**Dermal Exposure Route** No data available

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

If available, see data below

Chemical Name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Acetone (0.1 - 1%) CAS#: 67-64-1	Domestic mammal - Not specified TC <sub>Lo</sub>	0.0315 mg/L	13 days	<b>Effects on Fertility</b> Post-implantation mortality (e.g. dead and/or resorbed implants per total number of implants)	RTECS (Registry of Toxic Effects of Chemical Substances)

**Inhalation (Vapor) Exposure Route**

If available, see data below

**Inhalation (Gas) Exposure Route**

No data available

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

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

**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**

Chemical Name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
1,2-Propanediol (>99%) CAS#: 57-55-6	96 hours	<i>Pimephales promelas</i>	LC <sub>50</sub>	51400 mg/L	IUCLID (The International Uniform Chemical Information Database)
Acetone (0.1 - 1%) CAS#: 67-64-1	96 hours	<i>Pimephales promelas</i>	LC <sub>50</sub>	6210 mg/L	PEEN (Pan European Ecological Network)
Chemical Name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Phenolphthalein (<0.1%) CAS#: 77-09-8	96 hours	None reported	LC <sub>50</sub>	31.18 mg/L	Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite™

**Crustacea**

Chemical Name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
1,2-Propanediol (>99%)	48 Hours	<i>Daphnia magna</i>	LC <sub>50</sub>	34400 mg/L	IUCLID (The International Uniform Chemical Information

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CAS#: 57-55-6					Database)
Acetone (0.1 - 1%) CAS#: 67-64-1	48 Hours	<i>Daphnia magna</i>	EC <sub>50</sub>	10294 mg/L	PEEN (Pan European Ecological Network)
Chemical Name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Phenolphthalein (<0.1%) CAS#: 77-09-8	48 hours	None reported	LC <sub>50</sub>	20.54 mg/L	Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite™

#### Algae

Chemical Name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
1,2-Propanediol (>99%) 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.

#### Ingredient Biodegradability Data

No data available

#### Bioaccumulation

If available, see ingredient data below.

**Product Bioaccumulation Data** Test data reported below.

**Ingredient Bioaccumulation Data** No data available

#### Additional information

#### Product Information

**Partition Coefficient (n-octanol/water)** Not applicable

#### Ingredient Information

Chemical Name	Partition Coefficient (n-octanol/water)	Method
1,2-Propanediol (>99%) CAS#: 57-55-6	log K <sub>ow</sub> = -0.92	No information available

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Acetone (0.1 - 1%) CAS#: 67-64-1	log K <sub>ow</sub> = 0.58	No information available
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#### **Mobility**

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

#### **Product Information**

**Soil Organic Carbon-Water Partition Coefficient** Not applicable

#### **Ingredient Information**

<b>Chemical Name</b>	<b>Soil Organic Carbon-Water Partition Coefficient</b>	<b>Method</b>
1,2-Propanediol (>99%) CAS#: 57-55-6	log K <sub>oc</sub> = -0.41	No information available

#### **Additional information**

##### **Water solubility**

#### **Product Information**

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

#### **Ingredient Information**

<b>Chemical Name</b>	<b>Water solubility classification</b>	<b>Water solubility</b>	<b>Water solubility temperature °C</b>	<b>Water solubility temperature °F</b>
1,2-Propanediol CAS#: 57-55-6	Completely soluble	100000 mg/L	20 °C	68 °F
Acetone CAS#: 67-64-1	Soluble	> 1000 mg/L	25 °C	77 °F
Phenolphthalein CAS#: 77-09-8	Insoluble	< 0.1 mg/L	25 °C	77 °F

#### **Other adverse effects**

Contains a substance with an endocrine-disrupting potential.

<b>Chemical Name</b>	<b>EU - Endocrine Disruptors Candidate List</b>	<b>EU - Endocrine Disruptors - Evaluated Substances</b>	<b>Endocrine disrupting potential</b>
Phenolphthalein (<0.1%) CAS#: 77-09-8	Group III Chemical	-	-

### **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

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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.

**US EPA Waste Number** U002

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Acetone 67-64-1	-	Included in waste stream: F039	-	U002

**Special instructions for disposal** If permitted by regulation. 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. Check with local municipal and state authorities and waste contractors for pertinent local information regarding the proper disposal of chemicals.

#### 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

**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

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**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

Chemical Name	SARA 313 - Threshold Values %
Phenolphthalein (CAS #: 77-09-8)	0.1

**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

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Acetone 67-64-1	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

**U.S. - DEA (Drug Enforcement Administration) List I & List II**

Chemical Name	U.S. - DEA (Drug Enforcement Administration) - List I or Precursor Chemicals	U.S. - DEA (Drug Enforcement Administration) - List II or Essential Chemicals
Acetone (0.1 - 1%) CAS#: 67-64-1	Not Listed	500 gallon Import/Export Volume; 1500 kg Import/Export Weight; 50 gallon Domestic Sales Volume; 150 kg Domestic Sales Weight

**US State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65
Phenolphthalein (CAS #: 77-09-8)	Carcinogen

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
1,2-Propanediol 57-55-6	X	-	X
Acetone	X	X	X



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67-64-1			
Phenolphthalein 77-09-8	X	-	-

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

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

**NFPA and HMIS Classifications**

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

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

NIOSH IDLH *Immediately Dangerous to Life or Health*  
 ACGIH ACGIH (American Conference of Governmental Industrial Hygienists)  
 NDF *no data*

**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  
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**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**