

# SAFETY DATA SHEET

Version 3.4

Issue Date 05-Jul-2016 Revision Date 16-Apr-2018

# 1. IDENTIFICATION

**Product identifier** 

Product Name Phenol Red Indicator Solution

Other means of identification

Product Code(s) 21149

Safety data sheet number M00349

Recommended use of the chemical and restrictions on use

Recommended Use Laboratory reagent Indicator for pH

Uses advised against No information available

Details of the supplier of the safety data sheet

**Initial Supplier Identifier** 

Hach Sales & Service LP. 3020 Gore Road, London, Ontario N5V 4T7 Canada Tel: 1-800-665-7635

**Manufacturer Address** 

Hach Company P.O. Box 389 Loveland, CO 80539 USA +1(970) 669-3050

Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300

CANUTEC 613-992-4624

# 2. HAZARD IDENTIFICATION

### Classification

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

#### Label elements

### **Hazard statements**

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

#### **Unknown Acute Toxicity**

0 % of the mixture consists of ingredient(s) of unknown toxicity.

- 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

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- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

#### Other Hazards Known

Not applicable.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Substance**

Not applicable

#### **Mixture**

Chemical name	Synonyms	CAS No.	Percent Range	Units	HMIRA#
1,2-Propanediol	No information	57-55-6	40 - 50%	g	-
	available				

### 4. FIRST AID MEASURES

### **Description of first aid measures**

General advice No hazards which require special first aid measures. Use first aid treatment according to

the nature of the injury.

**Inhalation** Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin contact** Wash skin with soap and water.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

**Symptoms** See Section 11 for additional Toxicological Information.

Indication of any immediate medical attention and special treatment needed

**Note to physicians**Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

surrounding environment.

Unsuitable Extinguishing Media Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the

chemical

No information available.

**Hazardous combustion products** Carbon monoxide, Carbon dioxide.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

### 6. ACCIDENTAL RELEASE MEASURES

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Personal precautions, protective equipment and emergency procedures

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** Ensure adequate ventilation.

**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.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

# 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

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

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

**Exposure Limits** 

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

**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

exceeded or irritation is experienced, ventilation and evacuation may be required.

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Hand Protection Wear suitable gloves.

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** No special protective equipment required.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** Local authorities should be advised if significant spillages cannot be contained. Do not

allow into any sewer, on the ground or into any body of water.

Thermal hazards None under normal processing.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

Appearance aqueous solution Color red

Odor None Odor threshold No data available

Property Values Remarks • Method

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

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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** 

**Autoignition temperature** 

Coefficient

Not applicable

No data available

**Decomposition temperature**No data available

Dynamic viscosityNo data availableKinematic viscosityNo data available

Solubility(ies)

Water solubility

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

### Solubility in other solvents

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

### **Other Information**

**Metal Corrosivity** 

Steel Corrosion RateNo data availableAluminum Corrosion RateNo data available

### **Volatile Organic Compounds (VOC) Content**

See ingredients information below

Chemical name	CAS No.	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
1,2-Propanediol	57-55-6	No data available	X

**Explosive properties** 

Upper explosion limitNo data availableLower explosion limitNo data available

Flammable properties

Flash point No data available

Flammability Limit in Air

Upper flammability limit:No data availableLower flammability limit:No data available

Oxidizing properties No data available.

Bulk density Not applicable

Particle Size No information available

Particle Size Distribution No information available

# 10. STABILITY AND REACTIVITY

#### Reactivity

Not applicable.

Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to Mechanical Impact None Sensitivity to Static Discharge None.

Possibility of Hazardous Reactions

Possibility of Hazardous Reactions None under normal processing.

**Hazardous polymerization** 

None under normal processing.

Conditions to avoid

Conditions to avoid None known based on information supplied.

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Incompatible materials

Strong oxidizing agents, strong acids, and strong bases. Incompatible materials

### **Hazardous Decomposition Products**

Carbon dioxide. Carbon monoxide.

# 11. TOXICOLOGICAL INFORMATION

#### Information on Likely Routes of Exposure

**Product Information** 

Inhalation No known effect based on information supplied.

Eye contact No known effect based on information supplied.

Skin contact No known effect based on information supplied.

Ingestion No known effect based on information supplied.

None known.

Aggravated Medical Conditions Skin disorders.

Toxicologically synergistic

products

Toxicokinetics, metabolism and See ingredients information below.

distribution

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

## Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

**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

#### **Unknown Acute Toxicity**

0 % of the mixture consists of ingredient(s) of unknown toxicity.

- 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

### **Acute Toxicity Estimations (ATE)**

ATEmix (oral)	No information available
ATEmix (dermal)	No information available
ATEmix (inhalation-dust/mist)	No information available
ATEmix (inhalation-vapor)	No information available
ATEmix (inhalation-gas)	No information available

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If available, see data below

#### **Ingredient Acute Toxicity Data**

Oral Exposure Route If available, see data below						
Chemical name			Exposure	Toxicological effects Key literature reference		
	type	dose	time	-	sources for data	

RTECS (Registry of Toxic 1,2-Propanediol None reported Rat 20000 mg/kg None Effects of Chemical (40 - 50%)LD<sub>50</sub> reported Substances) CAS#: 57-55-6 **Dermal Exposure Route** If available, see data below

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

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

# **Product Specific Target Organ Toxicity Single Exposure**

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 Specific Target Organ Toxicity Single Exposure Data**

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

### Aspiration toxicity

No data available

### **Product Skin Corrosion/Irritation Data**

No data available.

### Ingredient Skin Corrosion/Irritation Data

If available, see data below

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

No data available.

### **Ingredient Eye Damage/Eye Irritation Data**

If available, see data below

#### **Sensitization Information**

**Product Sensitization Data** 

**Skin Sensitization Exposure Route** No data available. **Respiratory Sensitization Exposure Route** No data available.

**Ingredient Sensitization Data** 

If available, see data below. **Skin Sensitization Exposure Route Respiratory Sensitization Exposure Route** If available, see data below.

### **Chronic Toxicity Information**

**Product Specific Target Organ Toxicity Repeat Dose Data** 

**Oral Exposure Route** No data available. **Dermal Exposure Route** No data available.

Inhalation (Dust/Mist) Exposure RouteNo data available.Inhalation (Vapor) Exposure RouteNo data available.Inhalation (Gas) Exposure RouteNo data available.

Ingredient Specific Target Organ Toxicity Repeat Exposure Data

Oral Exposure Route

Dermal Exposure Route

If available, see data below

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

Inhalation (Gas) Exposure Route If available, see data below

**Product Carcinogenicity Data** 

Oral Exposure RouteNo data availableDermal Exposure RouteNo data availableInhalation (Dust/Mist) Exposure RouteNo data availableInhalation (Vapor) Exposure RouteNo data availableInhalation (Gas) Exposure RouteNo data available

**Ingredient Carcinogenicity Data** 

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	Does not apply
Labor)	

Oral Exposure Route
Dermal Exposure Route
If available, see data below
Inhalation (Dust/Mist) Exposure Route
Inhalation (Vapor) Exposure Route
Inhalation (Gas) Exposure Route
If available, see data below

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

Product Germ Cell Mutagenicity invivo Data

Oral Exposure RouteNo data availableDermal Exposure RouteNo data available

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Inhalation (Dust/Mist) Exposure RouteNo data availableInhalation (Vapor) Exposure RouteNo data availableInhalation (Gas) Exposure RouteNo data available

Ingredient Germ Cell Mutagenicity invivo Data

Oral Exposure Route
Dermal Exposure Route
If available, see data below
Inhalation (Dust/Mist) Exposure Route
Inhalation (Vapor) Exposure Route
If available, see data below
Inhalation (Gas) Exposure Route
If available, see data below
Inhalation (Gas) Exposure Route
If available, see data below
If available, see data below

**Product Reproductive Toxicity Data** 

Oral Exposure Route

Dermal Exposure Route

Inhalation (Dust/Mist) Exposure Route

Inhalation (Vapor) Exposure Route

Inhalation (Gas) Exposure Route

No data available

No data available

No data available

No data available

**Ingredient Reproductive Toxicity Data** 

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

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Product Ecological Data
Aquatic toxicity

Fish No data available
Crustacea No data available
Algae 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%) CAS#: 57-55-6	96 hours	Pimephales promelas	LC <sub>50</sub>	51400 mg/L	IUCLID (The International Uniform Chemical Information Database)

Crustacea If available, see ingredient data below Key literature references and Chemical name **Exposure Species** Endpoint Reported time sources for data type dose 1,2-Propanediol 34400 mg/L IUCLID (The International 48 Hours Daphnia magna LC50 Uniform Chemical Information (40 - 50%)CAS#: 57-55-6 Database)

If available, see ingredient data below Algae Key literature references and **Chemical name Exposure Species Endpoint** Reported time dose sources for data type 1,2-Propanediol 19000 mg/L IUCLID (The International 96 hours Selenastrum capricornutum EC50 **Uniform Chemical Information** (40 - 50%)CAS#: 57-55-6 Database)

### **Other Information**

#### Persistence and degradability

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**Product Biodegradability Data** 

No data available.

**Ingredient Biodegradability Data** 

**Bioaccumulation** 

**Product Bioaccumulation Data** 

No data available.

Partition Coefficient (n-octanol/water)

Not applicable

**Ingredient Bioaccumulation Data** 

**Mobility** 

Soil Organic Carbon-Water Partition Coefficient Not applicable

Water solubility

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

#### Other adverse effects

No information available.

# 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

# 14. TRANSPORT INFORMATION

<u>Transport Canada</u> Not regulated

TDG Not regulated

IATA Not regulated

<u>IMDG</u> 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:

The item is part of a reagent set of kit the classification would change to the

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

**Regulatory information** 

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#### **National Inventories**

DSL/NDSL Complies

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

#### **International Inventories**

**TSCA** Complies **EINECS/ELINCS** Complies Complies **ENCS** Complies **IECSC** Complies **KECL PICCS** Complies **TCSI** Complies **AICS** Complies **NZIoC** Complies

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

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

### Canada - CEPA - Mercury Containing Products

None

# **International Regulations**

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

**Export Notification requirements** Not applicable

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

#### **Special Comments**

None

### NFPA and HMIS Classifications

	NFPA	Health hazards - 0	Flammability - 0	Instability - 0	Physical and Chemical Properties -
Ī	HMIS	Health hazards - 0	Flammability - 0	Physical Hazards - 0	Personal protection - X
			-	_	- See section 8 for more
1					information

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

NIOSH IDLH Immediately Dangerous to Life or Health

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)

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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 16-Apr-2018

Revision Date 16-Apr-2018

**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.

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**End of Safety Data Sheet** 

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