

SAFETY DATA SHEET

Issue Date 30-09-2019

Revision Date 26-Jan-2024

Version 5

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1. IDENTIFICATION

Product identifier Phenol Red **Product Name** Other means of identification Product Code(s) 2657512 M00349 Safety data sheet number

Recommended use of the chemical and restrictions on use **Recommended Use** Laboratory reagent. Indicator for pH.

Uses advised against Consumer use. For Laboratory Use Only. **Restrictions on use**

Details of the supplier of the safety data sheet

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

Emergency telephone number

+1(303) 623-5716 - 24 Hour Service

2. HAZARDS IDENTIFICATION

Classification

Regulatory Status

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

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

Hazards not otherwise classified (HNOC) Not applicable

Label elements

Signal word None

Hazard statements

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

Other Hazards Known

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

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Substance Not applicable

<u>Mixture</u>

| Chemical | Family |
|----------|--------|
| Chemical | nature |

Mixture. No information available.

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

| 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 effe | cts, 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 | | |
| Suitable Extinguishing Media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. | |

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

Specific hazards arising from the No information available. chemical

Hazardous combustion products No information available.

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

| 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.

| Personal precautions, protective equipment and emergency procedures | | | |
|---|--|--|--|
| 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 | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically, placing in appropriate containers for disposal. | | |
| Prevention of secondary hazards | Clean contaminated objects and areas thoroughly observing environmental regulations. | | |
| Reference to other sections | See section 8 for more information. See section 13 for more information. | | |

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. | |
| Flammability class | Not applicable | |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies |
|--|
| Showers Eyewash stations Ventilation systems. Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. |
| ch as personal protective equipment |
| No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. Ensure adequate ventilation. |
| Wear suitable gloves. Barrier creams may help to protect the exposed areas of skin. Gloves must be inspected prior to use. The selected protective gloves have to satisfy the |
| |

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|---|--|--|
| | specifications of EU Directive 2016/425 and the standard EN 374 derived from it. Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374-1:2016. | |
| Eye/face protection | Wear safety glasses with side shields (or goggles). | |
| Skin and body protection | No special protective equipment required. Avoid contact with eyes, skin and clothing. | |
| 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 Appearance Odor | Liqu aqueous solution Odorless | Color red Odor threshold Not applicable | |
|--------------------------------------|--------------------------------------|--|--|
| Property_ | | Values Remarks • Method | |
| Molecular weight | t | No data available | |
| рН | | No data available | |
| Melting point / fro | eezing point | ~ -29 °C / -20.2 °F | |
| Initial boiling poi | nt and boiling range | 140 °C / 284 °F | |
| Evaporation rate | | 1.1 (water = 1) | |
| Vapor pressure | | 20.327 mm Hg / 2.71 kPa at 25 °C / 77 °F | |
| Relative vapor de | ensity | 0.62 | |
| Specific gravity - | VALUE 1 | 1.5 | |
| Partition coefficie | ent | Not applicable | |
| Soil Organic Carl | bon-Water Partition | Not applicable | |
| Autoignition tem | perature | No data available | |
| Decomposition to | emperature | No information available | |
| Dynamic viscosi | ty | No information available | |
| Kinematic viscos | sity | No data available | |
| Solubility(ies) | | | |

Solubility(ies)

EN / AGHS

Water solubility

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

Solubility in other solvents

| Pa |
|----|
| |

No data available

No data available

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

Other information

Metal Corrosivity

Steel Corrosion Rate Aluminum Corrosion Rate

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 | Х |

Explosive properties

| Upper explosion limit Lower explosion limit | No data available No data available |
|---|--|
| Flammable properties | |
| Flash point | No data available |
| Flammability Limit in Air Upper flammability limit: Lower flammability limit: | No data available No data available |
| Oxidizing properties | No data available. |
| Bulk density | No data available |

10. STABILITY AND REACTIVITY

Reactivity

Not applicable.

<u>Chemical stability</u> Stable under normal conditions.

Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Possibility of hazardous reactions None under normal processing.

<u>Hazardous polymerization</u> None under normal processing.

Conditions to avoid

None known based on information supplied.

Incompatible materials

Strong oxidizing agents, strong acids, and strong bases.

Hazardous decomposition products

None known based on information supplied.

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. |
| Symptoms | No information available. |

Acute toxicity

Based on available data, the classification criteria are not met

Mixture

No data available.

Ingredient Acute Toxicity Data

Test data reported below.

Oral Exposure Route

| Chemical name | Endpoint type | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
|--|------------------|---------------|------------------|-----------------------|---|
| 1,2-Propanediol (40 - 50%) CAS#: 57-55-6 | Rat LD₅o | 20000 mg/kg | None reported | None reported | RTECS |

Dermal Exposure Route

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

Unknown Acute Toxicity

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

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 |

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

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Mixture

No data available.

Ingredient Skin Corrosion/Irritation Data No data available.

Serious eye damage/irritation

Based on available data, the classification criteria are not met.

Mixture

No data available.

Ingredient Eye Damage/Eye Irritation Data No data available.

Respiratory or skin sensitization

Based on available data, the classification criteria are not met.

Mixture

No data available.

Ingredient Sensitization Data

No data available.

STOT - single exposure

Based on available data, the classification criteria are not met.

Mixture

No data available.

Ingredient Specific Target Organ Toxicity Single Exposure Data No data available.

STOT - repeated exposure

Based on available data, the classification criteria are not met.

Mixture

No data available.

Ingredient Specific Target Organ Toxicity Repeat Exposure Data Test data reported below.

Inhalation (Vapor) Exposure Route

| Chemical name | Endpoint type | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
|--|------------------|---------------|------------------|---|---|
| 1,2-Propanediol (40 - 50%) CAS#: 57-55-6 | Rat TC⊾₀ | 2.180 mg/L | 90 days | Behavioral Food intake Biochemical Enzyme inhibition, induction, or change in blood or tissue levels (dehydrogenases) Endocrine Changes in spleen weight | |

Carcinogenicity

Based on available data, the classification criteria are not met.

Mixture

No data available.

Ingredient Carcinogenicity Data

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 | Does not apply |

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Mixture invitro Data

No data available.

Substance invitro Data

Test data reported below.

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

Mixture invivo Data

No data available.

Substance invivo Data

No data available.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Mixture

No data available.

Ingredient Reproductive Toxicity Data

No data available.

Aspiration hazard

Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

| Ecotoxicity | Based on available data, the classification criteria are not met. | | | | |
|--------------------------|--|--|--|--|--|
| Unknown aquatic toxicity | 0% of the mixture consists of components(s) of unknown hazards to the aquatic environment. | | | | |
| <u>Mixture</u> | | | | | |

Aquatic Acute Toxicity

No data available.

Aquatic Chronic Toxicity No data available.

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Substance

Aquatic Acute Toxicity

Test data reported below.

Fish

| 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 ₅₀ | 51400 mg/L | IUCLID |

Crustacea

| 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 | 48 Hours | Daphnia magna | LC ₅₀ | 34400 mg/L | IUCLID |

Algae

| 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 | Selenastrum capricornutum | EC50 | 19000 mg/L | IUCLID |

Aquatic Chronic Toxicity

No data available.

Persistence and degradability

Mixture No data available.

Mixture

No data available.

Partition coefficient

Mobility

Soil Organic Carbon-Water Partition Coefficient

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Not applicable

Not applicable

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. |
| US EPA Waste Number | No data available |

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 |
| ΙΑΤΑ | 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

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

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

IMERC: Not applicable

U.S. State Right-to-Know Regulations

This product may contain substances regulated by state right-to-know regulations.

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|-----------------|------------|---------------|--------------|
| 1,2-Propanediol | X | - | Х |
| 57-55-6 | | | |

U.S. EPA Label Information

| Chemical name | FIFRA | FDA |
|-----------------|----------|-----------------|
| 1,2-Propanediol | 180.0910 | 21 CFR 184.1666 |
| | 180.0930 | |

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

Special Comments None

Additional information

Global Automotive Declarable Substance List (GADSL) Not applicable NFPA and HMIS Classifications

| NFPA | Health hazards - 0 | Flammability - 0 | Instability - 0 | Physical and chemical properties - |
|------|--------------------|------------------|----------------------|------------------------------------|
| HMIS | Health hazards - 0 | Flammability - 0 | Physical hazards - 0 | Personal protection - |
| | | | | Х |
| | | | | - 1 |

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

ACGIH

ACGIH (American Conference of Governmental Industrial Hygienists)

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|--|--|---|---|---|
| ATSDR CCRIS CDC CEPA CICAD ECHA EEA EPA ERMA ECOSARS FDA GESTIS HSDB INERIS IPCS INCHEM IUCLID NITE NIH NIOSH LOLI NDF NICNAS NIOSH IDLH OSHA PEEN RTECS SIDS SYKE USDA USDC WHO | | ATSDR (Agency for Toxic Substances and Disease Registry) CCRIS (Chemical Carcinogenesis Research Information System) CDC (Center for Disease Control) CEPA (Canadian Environmental Protection Agency) CICAD (Concise International Chemical Assessment Documents) ECHA (The European Chemicals Agency) EFA (European Environment Agency) EFA (Environmental Protection Agency) ERMA (New Zealands Environmental Risk Management Authority) Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Sui FDA (Food & Drug Administration) GESTIS (Information System on Hazardous Substances of the German Social Acciden Insurance) HSDB (Hazardous Substances Data Bank) INERIS (The National Industrial Environment and Risks Institute) IPCS INCHEM (International Programme on Chemical Safety) IUCLID (The International Uniform Chemical Information Database) Japan National Institute of Technology and Evaluation (NITE) NIH (National Institute of Technology and Evaluation (NITE) NIH (National Institute for Occupational Safety and Health) LOLI (List of Lists - An International Chemical Regulatory Database) no data Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) Immediately Dangerous to Life or Health OSHA (Occupational Safety and Health Administration of the US Department of Labor) PEEN (Pan European Ecological Network) RTECS (Registry of Toxic Effects of Chemical Substances) SIDS (Screening Information Dataset) for High Volume Chemicals The Finnish Environment Institute (SYKE) USDA (United States Department of Commerce) WHO (World Health Organization) | | Agency) sessment Documents) Management Authority) The Estimation Programs Interface (EPI) Suite™ us Substances of the German Social Accident Int and Risks Institute) In Chemical Safety) al Information Database) Evaluation (NITE) Safety and Health) cal Regulatory Database) fication and Assessment Scheme (NICNAS) ministration of the US Department of Labor) cal Substances) igh Volume Chemicals |
| | | ONTROLS/PERSONAL I | | |
| TWA | TWA (time-weight | | STEL | STEL (Short Term Exposure Limit) |
| MAC | Maximum Allowab | le 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* RSP+ C M | Skin designation Respiratory sensitization Carcinogen mutagen | | SKN+ ** R | Skin sensitization Hazard Designation Reproductive toxicant |
| Prepared By | | Hach Product Complian | nce Department | |
| Issue Date | | 30-09-2019 | | |
| Revision Date | | 26-Jan-2024 | | |
| Revision Note | | None | | |
| Disclaimer | | | | |
| | | | | |

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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