



# SAFETY DATA SHEET

According to 29 CFR 1910.1200 Hazard Communication Standard 2012 (HazCom 2012)

## SECTION 1: Identification

### Product identifier

Product name pH Indicator Solution (Phenol Red)

Product number R-0004

### Recommended use and restrictions

To be used in accordance with manufacturer instructions or under the direct guidance of the manufacturer.

### Manufacturer

Taylor Technologies, Inc.  
31 Loveton Circle  
Sparks, MD 21152  
Phone: (410) 472-4340  
Emergency phone: (800) 837-8548

## SECTION 2: Hazard(s) identification

**Physical hazards** Not applicable

**Health hazards** Not applicable

**Environmental hazards** Not currently regulated by OSHA. For additional information, refer to section 12 of the SDS.

### Label elements

Hazard pictograms Not applicable

Signal word Not applicable

Hazard statements Not applicable

### Precautionary statements

**Prevention** Avoid contact with skin, eyes, or clothing. For contact with skin or eyes, flush 20 minutes with water. If ingested, contact physician or local poison control center. Treat symptoms as needed.

**Response** This reagent is not defined as a hazardous chemical per OSHA's Hazard Communication Standard 2012; however, use care when handling.

**Storage** Keep tightly capped. Store out of direct sunlight between 36°F–85°F.

**Disposal** Not applicable

**Hazards not otherwise classified** Not applicable

## SECTION 3: Composition/information on ingredients

### Mixture

Chemical name	Common name and synonyms	CAS number	% w/w
Water	Dihydrogen oxide	7732-18-5	95–98
m-Cresol	3-Methylphenol	108-39-4	0.1–0.5
Other components below reportable levels	Not applicable	Not applicable	0.1–1

## SECTION 4: First-aid measures

### If inhaled

Remove individual to fresh air. Seek medical advice/attention if breathing becomes difficult or if respiratory irritation develops. Give oxygen or artificial respiration if needed.

### In case of skin contact

Immediately flush skin with plenty of water for at least 20 minutes. If clothing comes in contact with the product, the clothing should be removed and laundered before reuse. Seek medical advice/attention if irritation develops.

### In case of eye contact

Immediately flush eyes with plenty of water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms persist or in all cases of concern, seek medical advice/attention.

### If swallowed

Rinse mouth. Never give anything by mouth to a person who is unconscious or is having convulsions. Do NOT induce vomiting unless directed by physician. If vomiting occurs, keep head low so that stomach content does not get into the lungs. If symptoms persist or in all cases of concern, seek medical advice/attention.

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

Refer to section 2 and/or section 11 of the SDS for the most important known symptoms and effects.

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

Provide general supportive measures and treat symptomatically.

**General information**

Ensure medical personnel are aware of the material(s) involved and take precautions to protect themselves.

**SECTION 5: Firefighting measures****Extinguishing media**

- Suitable extinguishing media Use extinguishing media appropriate for surrounding fire.  
 Unsuitable extinguishing media Do not use a heavy water stream. Use of heavy stream of water may spread fire.

**Specific hazards arising from the substance or mixture**

- Fire hazard Not flammable  
 Explosion hazard Not explosive  
 Reactivity Hazardous reactions will not occur under normal conditions.  
 Hazardous combustion products Carbon oxides, nitrogen oxides. Other irritating fumes and smoke.

**Advice for firefighters**

- Precautionary measures Exercise caution when fighting any chemical fire; hazardous fumes will be present.  
 Firefighting equipment/instructions Use water spray or fog for cooling exposed containers.  
 Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.  
 Other information Refer to section 9 of the SDS for flammability properties.

**SECTION 6: Accidental release measures****Personal precautions, protective equipment, and emergency procedures**

Wear appropriate protective equipment and clothing during cleanup. Local authorities should be advised if significant spillages cannot be contained. For personal protective equipment, refer to section 8 of the SDS.

**Environmental precautions**

Avoid discharge into drains, watercourses, or onto the ground.

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

Dike the spilled material where this is possible. Stop leak if it can be done without risk. Absorb spillage to prevent material damage. Absorb in vermiculite, dry sand or earth, and place into containers. Prevent entry into waterways, sewers, basements, or confined areas. Following product recovery, flush area with water. Never return spills to original containers for reuse. Contaminated absorbent material may pose the same hazards as the spilled product. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

**Reference to other sections**

For exposure controls and personal protection, refer to section 8 of the SDS. For waste disposal, refer to section 13 of the SDS.

**SECTION 7: Handling and storage****Personal precautions, protective equipment, and emergency procedures**

Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. For personal protective equipment, refer to section 8 of the SDS. Keep away from incompatibles. Observe good industrial hygiene practices. Label containers appropriately.

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

Keep tightly capped. Store out of direct sunlight between 36°F-85°F. Store away from incompatible materials (refer to section 10 of the SDS).

**SECTION 8: Exposure controls/personal protection****Occupational exposure limits****US ACGIH Threshold Limit Values**

Components	Type	Value
m-Cresol (CAS 108-39-4)	TWA	20 mg/m <sup>3</sup> (skin)

**US NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value
m-Cresol (CAS 108-39-4)	TWA	10 mg/m <sup>3</sup>



**US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value
m-Cresol (CAS 108-39-4)	TWA	22 mg/m <sup>3</sup> (skin)

**Biological limit values**

No biological exposure limits noted for the ingredient(s)

**Exposure controls**

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eyewash facilities and emergency shower must be available when handling this product.

Personal protective equipment

- Eye/face protection Wear appropriate chemical safety goggles if contact is likely to occur.
- Skin protection Wear appropriate chemical-resistant gloves and clothing if contact is likely to occur.
- Body protection Wear appropriate protective clothing.
- Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fumes at levels exceeding the exposure limits. Advice should be sought from respiratory protection suppliers.

**SECTION 9: Physical and chemical properties**

**Information on basic physical and chemical properties**

Physical state	Liquid
Form	Liquid
Color	Clear, red
Odor	Slight phenolic
Odor threshold	No data available
pH	7.6
Evaporation rate	No data available
Melting point	Not applicable
Freezing point	No data available
Boiling point	212°F (100°C)
Flash point	Not applicable
Specific gravity	1.00
Auto-ignition temperature	Not applicable
Decomposition temperature	No data available
Flammability (solid, gas)	Not applicable
Upper Flammability Limit	Not applicable
Lower Flammability Limit	Not applicable
Vapor pressure	17 mm Hg
Relative vapor density	0.6
Solubility	Soluble in all proportions
Partition coefficient (n-octanol/water)	No data available
Viscosity	No data available
Explosive properties	Not applicable
Oxidizing properties	Not applicable
Percent volatile	98

**SECTION 10: Stability and reactivity**

<b>Reactivity</b>	This product is stable and nonreactive under normal conditions of use, storage, and transport.
<b>Chemical stability</b>	Stable under recommended handling and storage conditions (refer to section 7 of the SDS)
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use

<b>Conditions to avoid</b>	Contact with incompatible materials. Do not use in areas without adequate ventilation.
<b>Incompatible materials</b>	Oxidizing agents
<b>Hazardous decomposition products</b>	No hazardous decomposition products under conditions of normal use. In the event of fire, see section 5 of the SDS.

## SECTION 11: Toxicological information

### Information on toxicological effects

Inhalation	May cause irritation to the respiratory system
Skin contact	May cause slight or mild transient irritation. May cause staining.
Eye contact	May cause slight or mild transient irritation
Ingestion	May cause irritation, nausea, vomiting, and diarrhea

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

Direct skin contact may cause slight or mild transient irritation. Symptoms may include redness, edema, drying, cracking, and staining of the skin.

Direct contact with eyes may cause temporary irritation. Symptoms may include stinging and tearing.

Inhalation of mists can cause respiratory irritation. Symptoms may include coughing, and breathing difficulties.

Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea

### Acute toxicity

This product is not classified as an acute toxicity hazard. See below for product and individual ingredient acute toxicity data.

Product	Species	Acute Toxicity Estimate (ATE)
pH Indicator Solution (Phenol Red) (CAS Mixture)		
<b>Acute</b>		
<i>Dermal</i>		
LD <sub>50</sub>	Rabbit	>5000 mg/kg
LD <sub>50</sub>	Rat	>5000 mg/kg
<i>Inhalation</i>		
LC <sub>50</sub>	Rat	>20 mg/L
<i>Oral</i>		
LD <sub>50</sub>	Rat	>5000 mg/kg
Components	Species	Acute Toxicity Data

m-Cresol (CAS 108-39-4)

### Acute

#### *Dermal*

LD <sub>50</sub>	Rabbit	2050 mg/kg
LD <sub>50</sub>	Rat	1100 mg/kg

#### *Inhalation*

LC <sub>50</sub>	Rat	0.116 mg/L
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#### *Oral*

LD <sub>50</sub>	Rat	242 mg/kg
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**Skin corrosion/irritation** May cause slight or mild transient irritation

**Serious eye damage/eye irritation** May cause temporary irritation

**Respiratory sensitization** Not expected to be a respiratory sensitizer

**Skin sensitization** Not expected to be a skin sensitizer

**Germ cell mutagenicity** Not expected to be a mutagenic

### Carcinogenicity

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not classifiable

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Not regulated

#### US National Toxicology Program (NTP) Report on Carcinogens

Not regulated

Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity (single exposure)	No data available
Specific target organ toxicity (repeated exposure)	No data available
Aspiration hazard	No data available

## SECTION 12: Ecological information

Ecotoxicity	This product is not classified as environmentally hazardous.
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Other adverse effects	Large or frequent spills can have a harmful or damaging effect on the environment.

## SECTION 13: Disposal considerations

Collect and reclaim or dispose of in sealed containers at a licensed waste disposal site. Since emptied containers may retain product residue, follow label warnings even after container is emptied. This material and its container must be disposed of in a safe manner. Dispose of contents/container in accordance with local/regional/national/international regulations.

## SECTION 14: Transport information

DOT	Not regulated as dangerous goods
IATA	Not regulated as dangerous goods
IMDG	Not regulated as dangerous goods

## SECTION 15: Regulatory information

### US federal regulations

#### CERCLA Hazardous Substance (40 CFR 302.4)

Chemical name	CAS number	Reportable Quantity
m-Cresol	108-39-4	100 lbs

#### OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not regulated

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Not regulated

#### SARA 302 Extremely Hazardous Substance (40 CFR 355 Appendices A / B)

Not regulated

#### SARA 304 Emergency Release Notification

Not regulated

#### SARA 311/312 Hazardous Chemical

Not regulated

#### SARA 313 (TRI reporting)

Chemical name	CAS number
m-Cresol	108-39-4

#### TSCA Section 8(b) Chemical Inventory

All components are on the U.S. EPA TSCA Inventory list.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs)

Chemical name	CAS number
m-Cresol	108-39-4

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated



**Safe Drinking Water Act (SDWA)**

Not regulated

**US state regulations**

**California Safe Drinking Water and Toxic Enforcement Act of 1986 (California Proposition 65)**

Not regulated

**Massachusetts Right-to-Know Act**

<u>Chemical name</u>	<u>CAS number</u>
m-Cresol	108-39-4

**New Jersey Worker and Community Right-to-Know Act**

<u>Chemical name</u>	<u>CAS number</u>
m-Cresol	108-39-4

**Pennsylvania Worker and Community Right-to-Know Act**

<u>Chemical name</u>	<u>CAS number</u>
m-Cresol	108-39-4

**Rhode Island Right-to-Know Act**

<u>Chemical name</u>	<u>CAS number</u>
m-Cresol	108-39-4

**SECTION 16: Other information**

**NFPA Rating**

Health hazard	0
Fire hazard	0
Reactivity	0
Specific	N/A

**Disclaimer**

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