

# SAFETY DATA SHEET

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

ECTION 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
ECTION 2: Hazard(s) identified	cation
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 neede
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	Not applicable	Not applicable	0.1–1

levels

# 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 meas	sures
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 Fire hazard	substance or mixture 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	Туре	Value	
m-Cresol (CAS 108-39-4)	TWA	20 mg/m <sup>3</sup> (skin)	
US NIOSH: Pocket Guide to Chemical Hazard	S		
Components	Туре	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	Туре	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
рН	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

# Reactivity Chemical stability Possibility of hazardous reactions

This product is stable and nonreactive under normal conditions of use, storage, and transport. Stable under recommended handling and storage conditions (refer to section 7 of the SDS) No dangerous reaction known under conditions of normal use

Conditions to avoid Incompatible materials	Contact with incompatible m Oxidizing agents	naterials. Do not use in areas without adequate ventilation.	
Hazardous decomposition		on products under conditions of normal use. In the quant of fire	
products	No hazardous decomposition products under conditions of normal use. In the event of fire, se section 5 of the SDS.		
CTION 11: Toxicological info	rmation		
Information on toxicological effect Inhalation	s May cause irritation to the re	espiratory system	
Skin contact	-	nsient irritation. May cause staining.	
Eve contact	May cause slight or mild trai	, c	
Ingestion	May cause irritation, nausea		
Most important	2	ise slight or mild transient irritation. Symptoms may include redn	
symptoms/effects, acute and delayed	edema, drying, cracking, an	d staining of the skin.	
	Direct contact with eyes may tearing.	y cause temporary irritation. Symptoms may include stinging an	
	Inhalation of mists can caus breathing difficulties.	se respiratory irritation. Symptoms may include coughing, and	
	Ingestion may cause gastro	intestinal irritation, nausea, vomiting, and diarrhea	
Acute toxicity	This product is not classified ingredient acute toxicity data	d as an acute toxicity hazard. See below for product and individu	
Product	Species	Acute Toxicity Estimate (ATE)	
pH Indicator Solution (Phenol Red)			
Acute			
Dermal			
	Rabbit	>5000 mg/kg	
LD <sub>50</sub>	Rat	>5000 mg/kg	
Inhalation	Nat	>3000 mg/kg	
	Det	· 20 mg/l	
	Rat	>20 mg/L	
Oral		5000 //	
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	
Oral			
LD <sub>50</sub>	Rat	242 mg/kg	
Skin corrosion/irritation	May cause slight or mild trai	nsient irritation	
Serious eye damage/eye irritation			
Respiratory sensitization			
Skin sensitization	Not expected to be a respiratory sensitizer		
	Not expected to be a skin se		
Germ cell mutagenicity	Not expected to be a mutag	lenic	
Carcinogenicity			
IARC Monographs. Overall Eval	uation of Carcinogenicity		
Not classifiable			
OSHA Specifically Regulated So Not regulated	ubstances (29 CFR 1910.100	01-1096)	
-			
OSHA Specifically Regulated So Not regulated US National Toxicology Program Not regulated			

Reproductive toxicity	•	ected 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	
CTION 12: Ecological inform	mation	
Ecotoxicity	This product is not class	sified 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.
CTION 13: Disposal conside	erations	
	after container is emptied.	nsed waste disposal site. Since emptied containers may retain produc This material and its container must be disposed of in a safe manner I/national/international regulations.
CTION 14: Transport inform	nation	
DOT	Not regulated as	adangerous goods
ΙΑΤΑ	Not regulated as	s dangerous goods
IMDG	Not regulated as dangerous goods	
CTION 15: Regulatory infor	5	
US federal regulations		
CERCLA Hazardous Substanc	e (40 CFR 302.4)	
Chemical name	CAS number	Reportable Quantity
m-Cresol	108-39-4	100 lbs
<b>OSHA Hazard Communication</b>	Standard (29 CFR 1910.	1200)
Not regulated	·	
OSHA Specifically Regulated	Substances (29 CFR 1910	).1001-1096)
Not regulated		
SARA 302 Extremely Hazardou	us Substance (40 CFR 35	5 Appendices A / B)
Not regulated		
SARA 304 Emergency Release	Notification	
	enotification	
Not regulated		
SARA 311/312 Hazardous Che	emical	
Not regulated		
SARA 313 (TRI reporting)		
Chemical name	CAS number	_
m-Cresol	108-39-4	
TSCA Section 8(b) Chemical Ir	nventory	
All components are on the U.	S. EPA TSCA Inventory list	t.
	otification (40 CFR 707, Su	ubpt. D)
TSCA Section 12(b) Export No	Ϋ́Υ,	. ,
TSCA Section 12(b) Export No Not regulated		
Not regulated		
Not regulated Other federal regulations	12 Hazardous Air Polluta	nts (HAPs)
Not regulated	12 Hazardous Air Polluta CAS number	nts (HAPs)

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	
Chemical name	CAS number	
m-Cresol	108-39-4	
New Jersey Worker and Community Right-to-Know Act		
Chemical name	CAS number	
m-Cresol	108-39-4	
Pennsylvania Worker and Community Right-to-Know Act		
Chemical name	CAS number	
m-Cresol	108-39-4	
Rhode Island Right-to-Know Act		
Chemical name	CAS number	
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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## Last revisions

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