



MODERNWATER

## Material Safety Data Sheet

### RaPID® Assay Pentachlorophenol

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#### MATERIAL IDENTIFICATION

Manufacturer/Distributor: Modern Water Inc.  
15 Read's Way, Suite 100  
New Castle, DE 19720

Phone Number: 1-(302)669-6900

Trade Names and Synonyms: RaPID Assay® Pentachlorophenol (A00111)

NFPA Ratings

Health:	2
Flammability:	0
Reactivity:	1

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#### OSHA HAZARD DETERMINATION

Hazardous Ingredients	CAS Number	Weight Percent
Sulfuric Acid Oil of Vitriol; Hydrogen sulfate; Sulphuric Acid	7664-93-9	≤1%
1,2,6-Trihydroxyhexane Hexanetriol-1,2,6; Hexane-1,2,6-triol	106-69-4	≤5%
Tris 2-amino-2-(hydroxymethyl); propane-1,3-diol; Trimethylaminomethane	77-86-1	≤3%
Dimethylformamide DMF	68-12-2	≤1%

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## PHYSICAL DATA

Plastic kit containing small amounts of various liquids and powders.

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## HAZARDOUS REACTIVITY

### Instability

Stable – Reactivity not expected with the product.

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## FIRE AND EXPLOSION DATA

### Fire and Explosion Hazards

Dimethylformamide has a flash point of 58°C.

### Extinguishing Media

Use media appropriate for surrounding material.

### Special Fire Fighting Instructions

Firefighters must wear appropriate protective clothing and self-containing breathing apparatus.

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## HEALTH HAZARD INFORMATION

**Primary Route(s) of Exposure/Entry:** Skin, Eyes and Mouth. Flush skin and eyes with large amounts of water. If sulfuric acid is ingested, do NOT induce vomiting. Seek medical attention immediately.

### Signs and Symptoms of Exposure/Medical Conditions Aggravated by Exposure:

Eye exposure to concentrated sulfuric acid solution may cause severe damage, often leading to blindness. Dilute solutions produce a more transient effect from which recovery may be complete. Exposure to mist may cause eye irritation and lacrimation. Skin contact with sulfuric acid may cause severe irritation and pain, burns and vesiculation.

Dimethylformamide (DMF) may cause abdominal pain, loss of appetite, nausea, vomiting, diarrhea, increased blood pressure, and liver injury, if inhaled. Contact with eyes or skin, may cause irritation. DMF may cause with prolonged or repeated skin contact, dermatitis with the systematic effects the same as if inhaled. If ingested, seek prompt medical attention.

Sulfuric acid is corrosive and may cause severe burning pain in the mouth, throat, and abdomen followed by vomiting and diarrhea. Asphyxia may occur from the swelling of the throat. Perforation of the esophagus and stomach may occur.

The toxicological properties of the kit components have not been fully defined. Contact may cause irritation to eyes, skin, and mucous membranes. May cause irritation if inhaled or ingested. Limit exposure to material.

**Carcinogenicity:** None of the components in this material is listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

## Applicable Exposure Limits

Sulfuric acid

OSHA/ PEL 1 mg/m<sup>3</sup>

ACGTH/TLV 1 mg/m<sup>3</sup>

1,2,6-Trihydroxyhexane

TXDS: orl-rat LD50 15500 mg/kg

ivn-rat LD50 5600 mg/kg

skn-rbt LD50 20 gm/kg

Tris

TXDS: orl-rat LD50 5900 mg/kg

ivn-mus LD50 1210 mg/kg

Dimethylformamide

OSHA/PEL 10 ppm

ACGIH /TLV 10 ppm TWA 8H, skin

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## FIRST AID

- Inhalation** If inhaled, remove to fresh air. If not breathing, give artificial respiration. Seek prompt medical attention.
- Skin Contact** Flush skin with large amounts of water for at least 15 minutes. Remove contaminated clothing and shoes, wash before reuse. If irritation is evident, seek medical attention.
- Eye Contact** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids may be lifted occasionally, until no evidence of chemical remains. Call a physician.
- Ingestion** The compound is toxic by ingestion. If sulfuric acid is ingested, do NOT induce vomiting. Call a physician immediately.

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## PROTECTION INFORMATION

**General Control Measures and Precautions:** Ventilation - Natural ventilation.

**Personal Protective Equipment:** Respiratory Protection: None required.

Protective Gloves: Are highly recommended.

Eye Protection: Safety glasses with side shields are required.

Other Protective Equipment: Lab coat or other long – sleeved garment is required. Access to a safety shower and eyewash station is recommended.

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## SPILL, LEAK AND DISPOSAL INFORMATION

**Spill, Leak, or Release** Review FIRE AND EXPLOSION HAZARDS and SAFETY PRECAUTIONS before proceeding with clean up.

Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up. Contain spill and collect in suitable waste container. Avoid contact of materials with skin or eyes. Use adequate ventilation.

No special clean up practices are required.

**Waste Disposal** Dispose of as solid waste in accordance with any applicable federal, state, and local requirements.

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## SHIPPING INFORMATION

**DOT** Proper Shipping Name Not DOT regulated.

**IATA/IMO** Proper Shipping Name Not restricted.

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## TITLE III HAZARD CLASSIFICATION

Acute No

Chronic No

Fire No

Reactivity No

Pressure No

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## REGULATORY INFORMATION

OSHA HAZARD DETERMINATION: This material is not known to be hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200

EPA DETERMINATIONS:

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, & LIABILITY ACT

(CERCLA/SUPERFUND), 40 CFR 302 - This material is not known to contain hazardous substances in sufficient quantity to make it subject to CERCLA regulations.

#### TOXIC SUBSTANCES CONTROL ACT (TSCA), 40 CFR 710

The material is a mixture as defined by TSCA. The chemical ingredients in this material are in the Section 8(b) Chemical Substance Inventory and/or are otherwise in compliance with TSCA. In the case of ingredients obtained from other manufacturers, Modern Water Inc relies on the assurance of responsible third parties in providing this statement.

#### RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261, SUBPARTS C AND D

The material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations; however, it could be considered hazardous if it meets criteria for being toxic, corrosive, ignitable or reactive according to U.S. EPA definitions (40 CFR 261). This material could also become a hazardous waste if it is mixed with or comes in contact with a listed hazardous waste. If it is a hazardous waste, regulations 40 CFR 262-266 and 268 may apply.

HAZARDOUS MATERIALS TRANSPORTATION REGULATIONS, 49 CFR 171-178 - This material is not known to contain hazardous substances in sufficient quantity to make it subject to the Regulations.

#### FOREIGN REGULATIONS: CANADIAN HAZARDOUS PRODUCTS ACT (WHMIS)

The material is not a WHMIS Controlled Product.

#### STATE REGULATIONS:

##### CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986

("PROPOSITION 65") The material is not known to contain any ingredients (s) subject to the Act.

##### PENNSYLVANIA WORKER AND COMMUNITY RIGHT TO KNOW ACT

This material is not known to contain any ingredient(s) subject to the Act. Non-hazardous ingredient(s) information is withheld as trade secret in accordance with Section 11 of the Pennsylvania Worker and Community Right to Know Act.

The above data are based on tests, experience, and other information which Modern Water Inc. believes reliable and are supplied for informational purposes only. However, some ingredients may have been purchased or obtained from third-party manufacturers. In these instances, Modern Water, Inc., in good faith, relies on information provided by those third parties. Since conditions of use are outside our control, MODERN WATER INC. DISCLAIMS ANY LIABILITY FOR DAMAGE OR INJURY WHICH RESULTS FROM USE OF THE ABOVE DATA. NOTHING CONTAINED HEREIN SHALL CONSTITUTE A

GUARANTEE, WARRANTY (INCLUDING WARRANTY OF MERCHANTABILITY) OR REPRESENTATION (INCLUDING FREEDOM FROM PATENT LIABILITY) BY MODERN WATER, INC. WITH RESPECT TO

THE DATA, THE MATERIAL DESCRIBED, OR ITS USE FOR ANY SPECIFIC PURPOSE, EVEN IF THAT PURPOSE IS KNOWN TO MODERN WATER INC.

Responsibility for MSDS: Modern Water Inc.  
15 Read's Way, Suite 100  
New Castle, DE 19720  
302-669-6900

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\* End of MSDS \*