

User Guide Total Hardness Water Test Kit

Be sure to remember

1. Make sure the vial is clean or wash the test vial properly before the test.
2. To get maximum accuracy always place the test sample vial against white background.
3. Test the samples immediately after collecting it from the source.

Note: Match the precipitation colour only not full vial. Cap the Vial and shake vigorously for 20 seconds.

DO NOT hold finger over the open end of the tube, as this may affect the test results. Wait 10 minutes for the colour to develop. See the test results by matching the test solution against the **Total Hardness** Test Colour Chart.

Directions for Testing Total Hardness Levels

1. Take 4ML water in vial
2. Add 2 drops **Total Hardness Reagent 1**
3. Add 2 drops **Total Hardness Reagent 2**
4. Shake the vial 5 seconds
5. Titrate with **Total Hardness Reagent 3**
6. Wait until colour change
7. Result = (No. of drops X 2.5) PPM

Material Safety Data Sheet (MSDS) - Total Hardness

SECTION 1: Identification of the substance/mixture and of the manufacturer

Product name: Total Hardness Water Test Kit

Manufacturer/Supplier Article number:

TRM009THWTK

Recommended uses of the product and uses restrictions on use:

Manufacturer Details: TRM Aquatek Private Limited, Golf Green Urban complex, Phase I |, Kolkata, W.B, India - 700095.

Emergency telephone number: +91 8910707010

SECTION 2: Composition/information on ingredients:

EDTA, EBT, Ammonium Buffer, Ethanol

SECTION 3: Physical Appearance: Odourless
Odour Threshold No information available pH No information available Flash Point No information available Evaporation Rate Not applicable
Flammability (solid, gas) No information available
Flammability or explosive limits Upper No data available Lower No data available Vapor Pressure No information available Vapor Density Not applicable Specific Gravity No information available Solubility Soluble in water Partition coefficient; n-octanol/water No data available Auto ignition Decomposition Temperature No information available Viscosity Not applicable.

SECTION 4: Hazards identification

Signal word: Danger

Hazard statements:

Causes severe skin burns and eye damage

May cause respiratory irritation

Very toxic to aquatic life

Precautionary statements:

If medical advice is needed, have product container or label at hand

Keep out of reach of children

Read label before use

Do not breathe dust/fume/gas/mist/vapours/spray

Avoid release to the environment

Wear protective gloves/protective clothing/eye protection/face protection

Use personal protective equipment as required

Do not eat, drink or smoke when using this product

Wash skin thoroughly after handling

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.

Continue rinsing

Immediately call a **POISON CENTER** or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

IF SWALLOWED: Rinse mouth. Do NOT induce

vomiting

Collect spillage

Specific treatment (see supplemental first aid instructions on this label)

Wash contaminated clothing before reuse

Store locked up

Store in a dry place

Store in a well-ventilated place. Keep container tightly closed

Dispose of contents/container to ...

Combustible Dust Hazard:

May form combustible dust concentrations in air (during processing).

SECTION 5: First aid measures

Description of first aid measures

After inhalation: Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. Seek medical advice if discomfort or irritation persists. If breathing difficult, give oxygen.

After skin contact: Wash affected area with soap and water. Rinse/flush exposed skin gently using water for 15-20 minutes. Seek medical advice if discomfort or irritation persists.

After eye contact: Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical attention if irritation persists or if concerned.

After swallowing: Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink sips of water. Seek medical attention if irritation, discomfort or vomiting persists.

Most important symptoms and effects, both acute and delayed:

Irritation, Nausea, Headache, Shortness of breath;

Indication of any immediate medical attention and special treatment needed:

If seeking medical attention, provide SDS document to physician.

SECTION 6: Firefighting measures

Extinguishing media

Suitable extinguishing agents: If in laboratory setting, follow laboratory fire suppression procedures. Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

For safety reasons unsuitable extinguishing agents: Special hazards arising from the substance or mixture:

Combustion products may include carbon oxides or other toxic vapors. Thermal decomposition can lead to release of irritating gases and vapors. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Advice for firefighters:

Protective equipment: Use NIOSH-approved respiratory protection/breathing apparatus.

Additional information (precautions): Move product containers away from fire or keep cool with water spray as a protective measure, where feasible. Use spark-proof tools and explosion-proof equipment.

SECTION 7: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Transfer to a disposal or recovery container. Use spark-proof tools and explosion-proof equipment. Use respiratory protective device against the effects of fumes/dust/aerosol. Keep unprotected persons away. Ensure adequate ventilation. Keep away from ignition sources. Protect from heat. Stop the spill, if possible. Contain spilled material by diking or using inert absorbent.

Environmental precautions:

Prevent from reaching drains, sewer or waterway.

Collect contaminated soil for characterization

Methods and material for containment and cleaning up:

If in a laboratory setting, follow Chemical Hygiene Plan procedures. Place into properly labelled containers for recovery or disposal. If necessary, use trained response staff/contractor. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

Collect solids in powder form using vacuum with (HEPA filter)

Reference to other sections:

SECTION 8: Handling and storage

Precautions for safe handling:

Wash hands after handling. Follow good hygiene procedures when handling chemical materials. Do not eat, drink, smoke, or use personal products when handling chemical substances. If in a laboratory setting, follow Chemical Hygiene Plan. Use only in well-ventilated areas. Avoid contact with eyes, skin, and clothing.

Conditions for safe storage, including any incompatibilities:

Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flame. Store away from foodstuffs. Store away from oxidizing agents. Store in cool, dry conditions in well-sealed containers. Store with like hazards

SECTION 9: Exposure controls/personal protection



Manufactured by:

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QR CODE FOR MORE INFORMATION



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STORE AT 15-20 °C IN DRY AND DARK PLACE

TRM AQUATEK is not responsible for unexpected result due to mishandling or wrong storage conditions.

