

WTW GmbH
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WTW Inc.
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Creation Date: 06/13/05 (2936F-1)
Revision Date:

FOR CHEMICAL EMERGENCY
Spill Leak Fire Exposure or Accident
Call CHEMTREC Day or Night
DOMESTIC NORTH AMERICA: 800-424-9300
INTERNATIONAL: 703-527-3887 (collect calls accepted)

MATERIAL SAFETY DATA SHEET

I. CHEMICAL IDENTIFICATION

TRADE NAMES: CHLORINE, FREE AND TOTAL Ampoules and Activator Solution

MODEL NO.: CI-10 CV

DESCRIPTION: Reagent ampoules and accessory solution for the determination of chlorine in water. Each ampoule contains approximately 2 mL of liquid reagent sealed under vacuum. The bottle of activator solution contains approximately 10 mL of accessory solution.

In the Ampoules:

NFPA RATINGS: HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

In the Activator Solution:

NFPA RATINGS: HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

II. COMPOSITION/INFORMATION ON INGREDIENTS

In the Ampoules:

COMPONENT:	Acetone	
CAS NO.:	67-64-1	PERCENT: < 5.0

COMPONENT:	Deionized Water	
CAS NO.:	7732-18-5	PERCENT: >90.0

COMPONENT:	Other components	
CAS NO.:	N/A	PERCENT: < 1.0

Any component of this mixture not specifically listed (e.g. "other components") is not considered to present a carcinogen hazard.

In the Activator Solution:

COMPONENT:	Potassium Iodide	
CAS NO.:	7681-11-0	PERCENT: <15.0

COMPONENT:	Deionized Water	
CAS NO.:	7732-18-5	PERCENT: >85.0

III. HAZARDS IDENTIFICATION

ACUTE TOXICITY: Irritation, nausea, diarrhea

CHRONIC TOXICITY: Irritation, dermatitis, iodism

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Chronic ingestion during pregnancy can cause fetal harm or death.

IV. FIRST AID MEASURES

EYE AND SKIN CONTACT: Immediately flush eyes and skin with water for 15 minutes.

INGESTION: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Seek medical attention.

INHALATION: Remove individual to fresh air.

V. FIRE FIGHTING MEASURES

FLASH POINT: N/A AUTOIGNITION POINT: N/A

FLAMMABILITY LIMITS: UPPER: N/A LOWER: N/A

EXTINGUISHING MEDIA: Water, dry chemical, foam or carbon dioxide

VI. ACCIDENTAL RELEASE MEASURES

Take up with absorbent material. Place in small containers for disposal.

VII. HANDLING AND STORAGE

Always wear eye protection when working with these ampoules.

WARNING: Do not break the tip of the ampoule unless it is completely immersed in your sample. Breaking the tip in the air may cause the glass ampoule to shatter.

If this product is used as directed, the user will not come in contact with or be exposed to any of its chemical components.

Wash thoroughly after handling. Avoid contact with eyes.

Fragile. Liquid in glass. Handle with care.

Product should be stored in the dark and at room temperature; however, temperatures up to 120 °F or even below freezing will not normally affect reagent performance.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA PEL: 1000 TWA ppm Acetone ACGIH TLV: 500 ppm TWA Acetone

PROTECTIVE EQUIPMENT: Safety glasses, protective gloves

IX. PHYSICAL AND CHEMICAL PROPERTIES

In the Ampoules:

STATE: Liquid APPEARANCE: Colorless to pale pink ODOR: None

SOLUBILITY IN WATER: Complete pH: 6.3

BOILING POINT: 94 °C MELTING POINT: -7 °C

VAPOR PRESSURE: N/A SPECIFIC GRAVITY: 1.0

VAPOR DENSITY: N/A

In the Activator Solution:

STATE: Liquid APPEARANCE: Colorless ODOR: None

SOLUBILITY IN WATER: Miscible pH: 11

BOILING POINT: 100 °C MELTING POINT: < 0 °C

VAPOR PRESSURE: Not determined SPECIFIC GRAVITY: > 1

VAPOR DENSITY: Not determined

X. STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS: When heated to decomposition, oxides of carbon, potassium, and iodine are emitted. Stable under normal conditions.

XI. TOXICOLOGICAL INFORMATION

CARCINOGENIC STATUS: None

No other data available at this time.

XII. ECOLOGICAL INFORMATION

Acetone is expected to volatilize or biodegrade rapidly.

No other data available at this time.

XIII. DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with Federal, State and Local Regulations.

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XIV. TRANSPORT INFORMATION

Not regulated.

XV. REGULATORY INFORMATION

EUROPEAN INFORMATION:

EU Symbols: N/A

CANADIAN INFORMATION:

WHMIS Classification: D2A, D2B

All chemical components of this product are listed on Canada's DSL.

U.S. INFORMATION:

All chemical components of this product are listed on the TSCA Inventory.

XVI. OTHER INFORMATION

THE ABOVE INFORMATION IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. ALL PRODUCTS ARE OFFERED IN ACCORDANCE WITH THE MANUFACTURER'S CURRENT PRODUCTION SPECIFICATIONS AND ARE INTENDED SOLELY FOR USE IN ANALYTICAL TESTING. THE MANUFACTURER SHALL IN NO EVENT BE LIABLE FOR ANY INJURY, LOSS OR DAMAGE RESULTING FROM THE HANDLING, USE OR MISUSE OF THESE PRODUCTS.