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Material Safety Data Sheet

Mercuric chloride 5%w/v solution MSDS

Section 1: Chemical Product and Company Identification

Product Name: Mercuric chloride 5%w/v solution Catalog Code: 10901 CAS#: 7487-94-7 RTECS: CAS# 7487-94-7: OV9100000 CAS# 7732-18-5: ZC0110000. TSCA: Not Available Synonym: Not Available Chemical Formula: Not Applicable	Contact Information: Finar Limited 184-186/P, Chacharwadi Vasna, Sarkhej-Bavla Highway, Ta.: Sanand, Dist.: Ahmedabad, Email: info@finarchemicals.com Web: www.finarchemicals.com
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Section 2: Composition and Information on Ingredients

Composition:		
Name	CAS #	%
Mercuric chloride 5%w/v solution	7487-94-7	5
Water	7732-18-5	--
Toxicological Data on Ingredients: Hazard Symbols: XI F+ Risk Phrases: 12 19 36/37/38		

Section 3: Hazards Identification

EMERGENCY OVERVIEW Appearance: Colorless Warning! May cause eye irritation and possible burns. May cause skin irritation. May cause respiratory and digestive tract irritation. Target Organs: None known. Potential Health Effects Eye: May cause severe eye burns. Skin: Exposure may cause dermatitis and sensitization. May cause redness, pain, and irritation. Ingestion: Substance causes necrosis of tissue in immediate area of contamination. Violent pain, vomiting, and purging may occur. Mean lethal dosage for adults is 1-4 grams. Inhalation: High dust concentrations may cause coughing, dyspnea, labored breathing, delayed pulmonary edema. Chronic: Chronic exposure to mercury may cause permanent central nervous system damage, fatigue, weight loss, tremors, personality changes, Personality changes have been associated with chronic mercury poisoning. Prolonged ingestion may cause metallic taste, gingivitis, pyorrhea with loosening teeth, gastrointestinal tract disorders, kidney
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and liver disorders

Section 4: First Aid Measures

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once.

Skin:

Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes.

Ingestion:

Get medical aid at once. Give oxygen if respiration is depressed.

Inhalation:

Give artificial respiration if necessary. Get medical aid. Keep victim warm, at rest. Move victim to fresh air.

Notes to Physician:

Treat symptomatically and supportively

Section 5: Fire and Explosion Data

General Information:

Negligible fire and explosion hazard when exposed to heat or flame. Move container if possible, avoid breathing vapors or dust.

Extinguishing Media:

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

Autoignition Temperature:

No information found.

Flash Point:

No information found

Fire Extinguisher Type:

Any means suitable for extinguishing surrounding fire

Fire/Explosion Hazards:

None Known.

Fire Fighting Procedure:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

Section 6: Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in plastic bags for later disposal. Keep out of sewers/drains.

Section 7: Handling and Storage

Store in a cool dry place. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Provide local exhaust or general dilution ventilation.

Personal Protective Equipment

Eyes:

Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear splash-proof safety goggles.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Not required for normal use. Firefighting-- any self-contained breathing apparatus with full facepiece operated in pressure-demand mode.

Section 9: Physical and Chemical Properties

Physical State: Clear liquid
Color: Colorless
Odor: Odorless
pH: Slightly acidic
Vapor Pressure: No information found.
Vapor Density: No information found.
Evaporation Rate: No information found.
Viscosity: No information found.
Boiling Point: > 212°F (> 100.00°C)
Freezing/Melting Point: < 32°F (< 0.00°C)
Decomposition Temperature: No information found.
Solubility in water: Soluble.
Specific Gravity/Density: 1.0
Molecular Formula: No information found.
Molecular Weight: No information found.

Section 10: Stability and Reactivity Data

Chemical Stability:
Stable under normal conditions of use and storage.
Incompatibility:
Formates, sulfites, phosphates, albumin, ammonia, gelatin, carbonates, hypophosphites, sulfides, alkalis, alkaloid salts, lime water, arsenic, antimony, bromides.
Hazardous Decomposition Products:
May emit toxic fumes of Mercury when heated to decomposition.
Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

RTECS:
CAS# 7732-18-5: ZC0110000.
CAS# 7487-94-7: OV9100000.
LD50/LC50:
CAS# 7732-18-5:
Oral, rat: LD50 = >90 mL/kg.
CAS# 7487-94-7:
Oral, mouse: LD50 = 6 mg/kg
Oral, rat: LD50 = 1 mg/kg
Skin, rat: LD50 = 41 mg/kg.
Carcinogenicity:
CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.
CAS# 7487-94-7: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Section 12: Ecological Information

Ecotoxicological Information:
Mercuric compounds are expected to be toxic to aquatic life.
Chemical Fate Information:
Mercury is highly persistent in water with a half-life greater than 200 days. When released into water, microorganisms convert Mercuric salts into Methyl Mercury which is rapidly taken up by algae and enters the food chain. It concentrates in the edible tissues of fish and eventually can cause human poisoning as well. Mercuric compounds are expected to significantly bioaccumulate.

Section 13: Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14: Transport Information

US DOT

Shipping Name: Mercury compounds, liquid, n.o.s.
(Mercuric chloride)
Hazard Class: 6.1
UN Number: UN2024
Packing Group: PG II

Section 15: Other Regulatory Information

US Federal

TSCA

CAS# 7732-18-5 is listed on the TSCA Inventory.
CAS# 7487-94-7 is listed on the TSCA Inventory.

SARA Reportable Quantities (RQ)

None of the components are on this list.

CERCLA/SARA Section 313

None of the components are on this list.

OSHA - Highly Hazardous

None of the components are on this list.

US State

State Right to Know

Mercuric chloride can be found on the following state Right-to-Know lists: New Jersey, Florida, Pennsylvania, Massachusetts.

California Regulations

European/International Regulations

Canadian DSL/NDL

CAS# 7732-18-5 is listed on Canada's DSL List.

CAS# 7487-94-7 is listed on Canada's DSL List.

Canada Ingredient Disclosure List

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 7487-94-7 is listed on Canada's Ingredient Disclosure List.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Created: 10/06/2010

Last Updated: 24/11/2012

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