AERCHEM INC.

400 W. 7th Street, Suite 112 Bloomington, IN 47404

Telephone: 812.334.9996 Fax: 812.334.1960 Emergency: 800.424.9300

SECTION 1: CHEMICAL PRODUCT IDENTIFICATION

Common Name/Trade Name:

Mercurous Chloride

Commercial Name:

N/A

Chemical Family:

N/A

Chemical Formula:

Hg2Cl2

Supplier:

AerChem, Inc.

400 W. 7Th St. Suite112

Bloomington, IN 47404

CAS No.::

10112-91-1

RTECS:

OV8750000

TSCA:

On the TSCA list.

In Case of Emergency:

Chemtrec: 800-424-9300

SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

Name:

Mercurous Chloride

CAS No.:

10112-91-1

TWA (mg/m^3) :

0.05

CEIL (mg/m³):

0.15

% by Weight:

100

Toxicological Data on Ingredients:

Mercurous Chloride:

ORAL (LD50): Acute: 166 mg/kg (Rat) 180 mg/kg (Mouse).

DERMAL (LD50): Acute: 1500 mg/kg (Rat).

SECTION 3: HAZARDS IDENTIFICATION

Potential Acute Health Effects:

Very dangerous in case of ingestion. Slightly dangerous to dangerous in case of skin contact (irritant), of eye contact (irriatnt), of inhalation. Very slightly to slightly dangerous in case of skin contact (permeator). Severe overexposure can result in death. Can be fatal if inhaled or ingested. This product may irritate eyes and skin upon contact.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not Available.

MUTAGENIC EFFECTS: Not Available. TERTOGENIC EFFECTS: Not Available.

The substance is toxic to blood, kidneys, lungs, the nervous system, mucous membranes. Toxcity of the product to the reproductive system: Not Available. Repeated or prolonged exposure can produce target organs damage. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in or many human organs.

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SECTION 4: FIRST AID MEASURES

Eve Contact:

one

Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. COLD water may be used. DO NOT use an eye ointment. Seek medical attention.

Skin Contact:

If the chemical gpt onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical touches the victim's exposed skin, such as the hands: Gently and throughly washthe contaminated skin with running water and non-abrasive soap. Be particularly careful to clean fods, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusage.

Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation:

Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation:

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, velt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resucitation. WARNING: It may be dangerous to the person providing aid to give mouth-to-mouth resuccitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

Ingestion:

Remove dentures if any. Watch for obstruction in the victim's mouth. Remove if possibe what is causing the obstruction but do not force fingers or a hard object between the victims teeth. Have conscious person drink several glasses of water or milk. INDUCE VOMITING by sticking finger in throat. Seek immediate medical attention. Serious Ingestion:

Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Remove dentures if any. Watch for obstruction in the victim's mouth. Remove if possible what is causing the obstruction but do nit force fingers or a hard object between the victim's teeth. If a soft pad can be inserted between the victim's teeth, it will protect the tounge from being bitten. A badly bleeding tongue immensely complicates the patient's problems. Have conscious person drink several glasses of water or milk. INDUCE VOMITING by sticking finger in throat. Lower the head that the vomit will not reenter the mouth and throat. If convulsions occur, do not resrain the victim, but do remove objects with which he (she) might injure himself (herself) or orient the victim to prevent him (her) from stricking fixed heavy objects. If the convulsions cease, turn the victim on the side or face down so that any fluid in the will drain. Seek immediate medical attention.

SECTION 5: FIRE AND EXPLOSION DATA

Flammability of the Product:

Non-flammable

Auto-Ignition Temperature:

Not applicable

Flash Points:

Not applicable

Flammable Limits:

Not applicable

Products of Combustion:

Not applicable

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Fire Hazards in Presence of Various Substances:

Not applicable

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available Risks of explosion of the product in presence of ststic discharge: Not available

No specific information is available in our database regarding the product's risks of explosion in the presence of various materials.

Fire Fighting Media and Instructions:

Non-flammable

Special Remarks on Fire Hazards:

No additional remark.

Special Remarks on Explosion Hazards:

No additional remark

SECTION 6: ACCIDENTAL RELEASE MEASURES

Small Spill:

Use appropriate tools to put the spilled solid in a convenient disposal container.

Large Spill:

Poisionous solid.

Stop leak if without risk. DO NOT get water inside container. DO NOT touch spilled material. Use water spray reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal.

SECTION 7: HANDELING AND STORAGE

Precautions:

Keep locked up. DO NOT ingest. DO NOT breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

Storage:

Keep container tightly closed. Keep in a cool, wel-ventilated place. Highly toxic or infectious materials should be stored in a separate locked safety cabinet or room.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engeneering controls to keep airbourne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airbourne contaminents below the exposure limits.

Personal Protection:

Splash goggles. Lab coat. Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Gloves (impervius). Wear appropriate respirator when ventilation is inadequate.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient, consult a specialist BEFORE handeling this product.

Exposure Limits:

TWA: $0.05 \text{ CEIL} =: 0.15 \text{ (mg/m}^3)$

Consult local authorotes for accepable exposure limits.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State and Appearance:

Solid

Odor:

Not available

Molecular Weight:

472.09

Taste:

Not available

pH (1% soln/water):

Not available

Color:

Not available

Boiling Point:

Not available

Melting Point:

Sublimes (450°C or 842°F)

Critical Temperature:

Not available

Specific Gravity:

7.15 (Water=1)

Vapor Pressure:

Not available

Vapor Density:

Not available

Volatility:

Not available

Odor Threshold:

Not available

Water/Oil Dist. Coeff.:

Not available

Ionicity (in Water):

Not available

Dispersion Properties:

Not available

Solubility:

Very slightly soluble in cold water.

SECTION 10: STABILITY AND REACTIVITY DATA

Stability:

The product is stable

Instability Temperature:

Not available

Conditions of Instability:

No additional remark.

Incompatability With Various Substances:

No specific information is available in our database regarding thereactivity of this material inpresence of various other materials.

Corrosivity:

Non-corrosive in presence of glass.

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Special remarks on Reactivity:

No additional remarks.

Special Remarks on Corrosivity:

No additional remark.

Polymerization:

No

SECTION 11: TOXICOLOGICAL INFORMATION

Routes of Entry:

Ingestion. Inhalation.

Toxicity to Animals:

Acute oral toxcity (LD50): 166 mg/kg (Rat). Acute dermal toxcity (LD50): 1500 mg/kg (Rat).

Chronic Effects on Humans:

The substance is toxic to blood, kidneys, lungs, the nervous system, mucous membranes. Toxcity of the product to the reproductive system: Not avilable.

Other Toxic Effects on Humans:

Very dangerous in case of ingestion.

Slightly dangerous in case of skin contact (irritant), of eye contact (irritant), of inhalation.

Very slightly to slightly dangerous in case of skin contact (permeator).

Special Remarks on Toxicity to Animals:

No additional remark.

Special Remarks on Chronic effects on Humans:

No additional remark.

Special Remarks on Other Toxic Effects on Humans:

No additionl remarks.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Not available.

BOD5 and **COD**:

Not available.

Products of Biodegradation:

The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation:

No additional remark.

SECTION 13: DISPOSAL CONSIDERATIONS

Water Disposal:

Recycle to process, if possible. Consult your local or regional authorities.

SECTION 14: TRANSPORT INFORMATION

DOT Classification:

DOT CLASS 6.1: Poisonous material.

Identification:

Mercury compound, solid, n.o.s. (Mercurous chloride) UN2025 III

Special Provisions for Transport:

Marine pollutant.