

# ***Chem-Impex International Inc.***

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## **SAFETY DATA SHEET**

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### **SECTION 1. CHEMICAL IDENTIFICATION**

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|                                 |                                                     |
|---------------------------------|-----------------------------------------------------|
| CATALOG #:                      | 00207                                               |
| NAME:                           | Mercury(II) chloride                                |
| SYNONYMS:                       | Mercuric chloride                                   |
| 24 HOUR EMERGENCY<br>TELEPHONE: | (800) 535-5053(USA)<br>352-323-3500 (INTERNATIONAL) |
| TO REQUEST AN MSDS:             | (800) 869-9290                                      |
| CUSTOMER<br>SERVICE:            | (630) 766-2112                                      |

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### **SECTION 2. HAZARDS IDENTIFICATION**

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#### **CLASSIFICATION OF THE SUBSTANCE OR MIXTURE**

##### **GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS)**

ACUTE TOXICITY, ORAL (CATEGORY 2), H300  
ACUTE TOXICITY, DERMAL (CATEGORY 1), H310  
SKIN CORROSION (CATEGORY 1B), H314  
SERIOUS EYE DAMAGE (CATEGORY 1), H318  
GERM CELL MUTAGENICITY (CATEGORY 2), H341

REPRODUCTIVE TOXICITY (CATEGORY 2), H361  
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE (CATEGORY 1), H372  
ACUTE AQUATIC TOXICITY (CATEGORY 1), H400  
CHRONIC AQUATIC TOXICITY (CATEGORY 1), H410

FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE SECTION 16.

**GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS**  
**PICTOGRAM**



**SIGNAL WORD** DANGER

**HAZARD STATEMENT(S)**

|             |                                                                 |
|-------------|-----------------------------------------------------------------|
| H300 + H310 | FATAL IF SWALLOWED OR IN CONTACT WITH SKIN                      |
| H314        | CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.                        |
| H318        | CAUSES SERIOUS EYE DAMAGE.                                      |
| H341        | SUSPECTED OF CAUSING GENETIC DEFECTS.                           |
| H361        | SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.            |
| H372        | CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE. |
| H410        | VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.           |

**PRECAUTIONARY STATEMENT(S)**

|                           |                                                                                                                                                                                         |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P201                      | OBTAIN SPECIAL INSTRUCTIONS BEFORE USE.                                                                                                                                                 |
| P202                      | DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD.                                                                                                               |
| P260                      | DO NOT BREATHE DUST/ FUME/ GAS/ MIST/ VAPOURS/ SPRAY.                                                                                                                                   |
| P262                      | DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING.                                                                                                                                            |
| P264                      | WASH SKIN THOROUGHLY AFTER HANDLING.                                                                                                                                                    |
| P270                      | DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT.                                                                                                                                     |
| P273                      | AVOID RELEASE TO THE ENVIRONMENT.                                                                                                                                                       |
| P280                      | WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE PROTECTION/ FACE PROTECTION.                                                                                                           |
| P281                      | USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED.                                                                                                                                          |
| P301 + P310 + P330        | IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR DOCTOR/ PHYSICIAN. RINSE MOUTH.                                                                                                       |
| P301 + P330 + P331        | IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE VOMITING.                                                                                                                                      |
| P303 + P361 + P353        | IF ON SKIN (OR HAIR): REMOVE/ TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/ SHOWER.                                                                            |
| P304 + P340 + P310        | IF INHALED: REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING. IMMEDIATELY CALL A POISON CENTER OR DOCTOR/ PHYSICIAN.                                 |
| P305 + P351 + P338 + P310 | 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. |

P308 + P313 IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/  
ATTENTION.  
P363 WASH CONTAMINATED CLOTHING BEFORE REUSE.  
P391 COLLECT SPILLAGE.  
P405 STORE LOCKED UP.  
P501 DISPOSE OF CONTENTS/ CONTAINER TO AN APPROVED  
WASTE DISPOSAL PLANT.

**HAZARDS NOT  
OTHERWISE  
CLASSIFIED (HNOC)  
OR NOT COVERED  
BY GHS** RAPIDLY ABSORBED THROUGH SKIN.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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MF: HgCl<sub>2</sub>  
MW: 271.5  
CAS-NO. 7487-94-7  
PURITY: ≥ 99.5% (Assay by titration)

#### HAZARDOUS COMPONENTS

| COMPONENT         | CLASSIFICATION                                                                                                                                                                       | CONCENTRATION |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| MERCURIC CHLORIDE |                                                                                                                                                                                      |               |
|                   | ACUTE TOX. 2; ACUTE TOX. 1;<br>SKIN CORR. 1B; EYE DAM. 1;<br>MUTA. 2; REPR. 2;<br>STOT RE 1; AQUATIC ACUTE 1;<br>AQUATIC CHRONIC 1;<br>H300 + H310, H314, H341, H361,<br>H372, H410. | ≤ 100 %       |

FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE  
SECTION 16.

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### SECTION 4. FIRST-AID MEASURES

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#### DESCRIPTION OF FIRST AID MEASURES

**GENERAL ADVICE** CONSULT A PHYSICIAN. SHOW THIS SAFETY DATA  
SHEET TO THE DOCTOR IN ATTENDANCE.MOVE OUT  
OF DANGEROUS AREA.

**IF INHALED** IF BREATHED IN, MOVE PERSON INTO FRESH AIR. IF  
NOT BREATHING, GIVE ARTIFICIAL RESPIRATION.  
CONSULT A PHYSICIAN.

|                                                                                   |                                                                                                                                                         |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>IN CASE OF SKIN CONTACT</b>                                                    | TAKE OFF CONTAMINATED CLOTHING AND SHOES IMMEDIATELY. WASH OFF WITH SOAP AND PLENTY OF WATER. TAKE VICTIM IMMEDIATELY TO HOSPITAL. CONSULT A PHYSICIAN. |
| <b>IN CASE OF EYE CONTACT</b>                                                     | RINSE THOROUGHLY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND CONSULT A PHYSICIAN. CONTINUE RINSING EYES DURING TRANSPORT TO HOSPITAL.              |
| <b>IF SWALLOWED</b>                                                               | DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. RINSE MOUTH WITH WATER. CONSULT A PHYSICIAN.                             |
| <b>MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED</b>                | THE MOST IMPORTANT KNOWN SYMPTOMS AND EFFECTS ARE DESCRIBED IN THE LABELLING (SEE SECTION 2.2) AND/OR IN SECTION 11                                     |
| <b>INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED</b> | NO DATA AVAILABLE                                                                                                                                       |

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## **SECTION 5. FIRE AND EXPLOSION DATA**

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### **EXTINGUISHING MEDIA**

|                                                              |                                                                          |
|--------------------------------------------------------------|--------------------------------------------------------------------------|
| <b>SUITABLE EXTINGUISHING MEDIA</b>                          | USE WATER SPRAY, ALCOHOL-RESISTANT FOAM, DRY CHEMICAL OR CARBON DIOXIDE. |
| <b>SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE</b> | HYDROGEN CHLORIDE GAS, MERCURY/MERCURY OXIDES.                           |
| <b>ADVICE FOR FIREFIGHTERS</b>                               | WEAR SELF-CONTAINED BREATHING APPARATUS FOR FIREFIGHTING IF NECESSARY.   |
| <b>FURTHER INFORMATION</b>                                   | NO DATA AVAILABLE                                                        |

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## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

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|                                         |                                                                                                                                |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>PERSONAL PRECAUTIONS, PROTECTIVE</b> | WEAR RESPIRATORY PROTECTION. AVOID DUST FORMATION. AVOID BREATHING VAPOURS, MIST OR GAS. ENSURE ADEQUATE VENTILATION. EVACUATE |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|

|                                                              |                                                                                                                                        |
|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>EQUIPMENT AND EMERGENCY PROCEDURES</b>                    | PERSONNEL TO SAFE AREAS. AVOID BREATHING DUST. FOR PERSONAL PROTECTION SEE SECTION 8.                                                  |
| <b>ENVIRONMENTAL PRECAUTIONS</b>                             | PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. DO NOT LET PRODUCT ENTER DRAINS. DISCHARGE INTO THE ENVIRONMENT MUST BE AVOIDED. |
| <b>METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP</b> | PICK UP AND ARRANGE DISPOSAL WITHOUT CREATING DUST. SWEEP UP AND SHOVEL. KEEP IN SUITABLE, CLOSED CONTAINERS FOR DISPOSAL.             |
| <b>REFERENCE TO OTHER SECTIONS</b>                           | FOR DISPOSAL SEE SECTION 13.                                                                                                           |

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## **SECTION 7. HANDLING AND STORAGE**

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|                                                                     |                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRECAUTIONS FOR SAFE HANDLING</b>                                | AVOID CONTACT WITH SKIN AND EYES. AVOID FORMATION OF DUST AND AEROSOLS.FURTHER PROCESSING OF SOLID MATERIALS MAY RESULT IN THE FORMATION OF COMBUSTIBLE DUSTS. THE POTENTIAL FOR COMBUSTIBLE DUST FORMATION SHOULD BE TAKEN INTO CONSIDERATION BEFORE ADDITIONAL PROCESSING OCCURS. PROVIDE APPROPRIATE EXHAUST VENTILATION AT PLACES WHERE DUST IS FORMED. FOR PRECAUTIONS SEE SECTION 2.2. |
| <b>CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES</b> | KEEP CONTAINER TIGHTLY CLOSED IN A DRY AND WELL-VENTILATED PLACE. LIGHT SENSITIVE. MOISTURE SENSITIVE. PRODUCT IS SENSITIVE TO LIGHT AND MOISTURE. STORAGE CLASS (TRGS 510): NON-COMBUSTIBLE, ACUTE TOXIC CAT. 1 AND 2 / VERY TOXIC HAZARDOUS MATERIALS                                                                                                                                      |
| <b>SPECIFIC END USE(S)</b>                                          | APART FROM THE USES MENTIONED IN SECTION 1.2 NO OTHER SPECIFIC USES ARE STIPULATED                                                                                                                                                                                                                                                                                                           |

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## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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### **CONTROL PARAMETERS**

### **COMPONENTS WITH WORKPLACE CONTROL PARAMETERS**

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| COMPONENT         | CAS-NO.   | VALUE                                                                                                                                                                                                                           | CONTROL PARAMETERS | BASIS                                   |
|-------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------|
| MERCURIC CHLORIDE | 7487-94-7 | TWA                                                                                                                                                                                                                             | 0.025000 MG/M3     | USA. ACGIH THRESHOLD LIMIT VALUES (TLV) |
|                   | REMARKS   | CENTRAL NERVOUS SYSTEM IMPAIRMENT<br>KIDNEY DAMAGE<br>SUBSTANCES FOR WHICH THERE IS A BIOLOGICAL EXPOSURE INDEX OR INDICES (SEE BEI SECTION)<br>NOT CLASSIFIABLE AS A HUMAN CARCINOGEN<br>DANGER OF CUTANEOUS ABSORPTION VARIES |                    |                                         |
|                   |           | TWA                                                                                                                                                                                                                             | 0.050000 MG/M3     | USA. NIOSH RECOMMENDED EXPOSURE LIMITS  |
|                   |           | POTENTIAL FOR DERMAL ABSORPTION                                                                                                                                                                                                 |                    |                                         |
|                   |           | C                                                                                                                                                                                                                               | 0.100000 MG/M3     | USA. NIOSH RECOMMENDED EXPOSURE LIMITS  |
|                   |           | POTENTIAL FOR DERMAL ABSORPTION.<br>SEE TABLE Z-2                                                                                                                                                                               |                    |                                         |

#### EXPOSURE CONTROLS

##### APPROPRIATE ENGINEERING CONTROLS

AVOID CONTACT WITH SKIN, EYES AND CLOTHING.  
WASH HANDS BEFORE BREAKS AND IMMEDIATELY  
AFTER HANDLING THE PRODUCT.

#### PERSONAL PROTECTIVE EQUIPMENT

##### EYE/FACE PROTECTION

FACE SHIELD AND SAFETY GLASSES USE EQUIPMENT  
FOR EYE PROTECTION TESTED AND APPROVED UNDER  
APPROPRIATE GOVERNMENT STANDARDS SUCH AS  
NIOSH (US) OR EN 166(EU).

**SKIN PROTECTION**

HANDLE WITH GLOVES. GLOVES MUST BE INSPECTED PRIOR TO USE. USE PROPER GLOVE REMOVAL TECHNIQUE (WITHOUT TOUCHING GLOVE'S OUTER SURFACE) TO AVOID SKIN CONTACT WITH THIS PRODUCT. DISPOSE OF CONTAMINATED GLOVES AFTER USE IN ACCORDANCE WITH APPLICABLE LAWS AND GOOD LABORATORY PRACTICES. WASH AND DRY HANDS.

**FULL CONTACT**

MATERIAL: NITRILE RUBBER

MINIMUM LAYER THICKNESS: 0.11 MM

BREAK THROUGH TIME: 480 MIN

MATERIAL TESTED:DERMATRIL (KCL 740, SIZE M)

**SPLASH CONTACT**

MATERIAL: NITRILE RUBBER

MINIMUM LAYER THICKNESS: 0.11 MM

BREAK THROUGH TIME: 480 MIN

MATERIAL TESTED:DERMATRIL (KCL 740, SIZE M)

IF USED IN SOLUTION, OR MIXED WITH OTHER SUBSTANCES, AND UNDER CONDITIONS WHICH DIFFER FROM EN 374, CONTACT THE SUPPLIER OF THE CE APPROVED GLOVES. THIS RECOMMENDATION IS ADVISORY ONLY AND MUST BE EVALUATED BY AN INDUSTRIAL HYGIENIST AND SAFETY OFFICER FAMILIAR WITH THE SPECIFIC SITUATION OF ANTICIPATED USE BY OUR CUSTOMERS. IT SHOULD NOT BE CONSTRUED AS OFFERING AN APPROVAL FOR ANY SPECIFIC USE SCENARIO.

**BODY PROTECTION**

COMPLETE SUIT PROTECTING AGAINST CHEMICALS, THE TYPE OF PROTECTIVE EQUIPMENT MUST BE SELECTED ACCORDING TO THE CONCENTRATION AND AMOUNT OF THE DANGEROUS SUBSTANCE AT THE SPECIFIC WORKPLACE.

**RESPIRATORY PROTECTION**

WHERE RISK ASSESSMENT SHOWS AIR-PURIFYING RESPIRATORS ARE APPROPRIATE USE A FULL-FACE PARTICLE RESPIRATOR TYPE N100 (US) OR TYPE P3 (EN 143) RESPIRATOR CARTRIDGES AS A BACKUP TO ENGINEERING CONTROLS. IF THE RESPIRATOR IS THE SOLE MEANS OF PROTECTION, USE A FULL-FACE SUPPLIED AIR RESPIRATOR. USE RESPIRATORS AND COMPONENTS TESTED AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH (US) OR CEN (EU).

**CONTROL OF ENVIRONMENTAL EXPOSURE**

PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. DO NOT LET PRODUCT ENTER DRAINS. DISCHARGE INTO THE ENVIRONMENT MUST BE AVOIDED.

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**SECTION 9.      PHYSICAL AND CHEMICAL PROPERTIES**

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**INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES**

|                                            |                              |
|--------------------------------------------|------------------------------|
| APPEARANCE                                 | White crystalline powder     |
| ODOUR                                      | NO DATA AVAILABLE            |
| ODOUR THRESHOLD                            | NO DATA AVAILABLE            |
| PH                                         | NO DATA AVAILABLE            |
| MELTING                                    | 277 °C (Approx.)             |
| POINT/FREEZING POINT                       |                              |
| INITIAL BOILING POINT                      | 302 °C (Lit.)                |
| AND BOILING RANGE                          |                              |
| FLASH POINT                                |                              |
| EVAPORATION RATE                           | NO DATA AVAILABLE            |
| FLAMMABILITY (SOLID,<br>GAS)               | NO DATA AVAILABLE            |
| UPPER/LOWER                                | NO DATA AVAILABLE            |
| FLAMMABILITY OR                            |                              |
| EXPLOSIVE LIMITS                           |                              |
| VAPOUR PRESSURE                            | 1.7 HPA (1.3 MMHG) AT 236 °C |
| VAPOUR DENSITY                             | NO DATA AVAILABLE            |
| RELATIVE DENSITY                           | 5.44 (Lit.)                  |
| WATER SOLUBILITY                           | NO DATA AVAILABLE            |
| PARTITION COEFFICIENT:<br>N- OCTANOL/WATER | NO DATA AVAILABLE            |
| AUTO-IGNITION                              | NO DATA AVAILABLE            |
| TEMPERATURE                                |                              |
| DECOMPOSITION                              | NO DATA AVAILABLE            |
| TEMPERATURE                                |                              |
| VISCOSITY                                  | NO DATA AVAILABLE            |
| EXPLOSIVE PROPERTIES                       | NO DATA AVAILABLE            |
| OXIDIZING PROPERTIES                       | NO DATA AVAILABLE            |
| <b>OTHER SAFETY<br/>INFORMATION</b>        | NO DATA AVAILABLE            |

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**SECTION 10.      STABILITY AND REACTIVITY**

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|                                                   |                                                 |
|---------------------------------------------------|-------------------------------------------------|
| <b>REACTIVITY</b>                                 | NO DATA AVAILABLE                               |
| <b>CHEMICAL STABILITY</b>                         | STABLE UNDER RECOMMENDED STORAGE<br>CONDITIONS. |
| <b>POSSIBILITY OF<br/>HAZARDOUS<br/>REACTIONS</b> | NO DATA AVAILABLE                               |
| <b>CONDITIONS TO AVOID</b>                        | AVOID MOISTURE. LIGHT.                          |

**INCOMPATIBLE  
MATERIALS**

STRONG OXIDIZING AGENTS, STRONG BASES

**HAZARDOUS  
DECOMPOSITION  
PRODUCTS**OTHER DECOMPOSITION PRODUCTS - NO DATA  
AVAILABLE.  
IN THE EVENT OF FIRE: SEE SECTION 5

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**SECTION 11. TOXICOLOGICAL INFORMATION**

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**INFORMATION ON TOXICOLOGICAL EFFECTS****ACUTE TOXICITY**NO DATA AVAILABLE  
INHALATION: NO DATA AVAILABLE  
LD50 DERMAL - RAT - 41 MG/KG**SKIN  
CORROSION/IRRITATION**SKIN - RABBIT  
RESULT: SEVERE SKIN IRRITATION - 24 H**SERIOUS EYE  
DAMAGE/EYE IRRITATION**EYES - RABBIT  
RESULT: SEVERE EYE IRRITATION - 24 H**RESPIRATORY OR SKIN  
SENSITISATION**

NO DATA AVAILABLE

**GERM CELL  
MUTAGENICITY**IN VITRO TESTS SHOWED MUTAGENIC EFFECTS  
WHICH WERE NOT OBSERVED WITH IN VIVO TEST.**CARCINOGENICITY**THIS PRODUCT IS OR CONTAINS A COMPONENT THAT  
IS NOT CLASSIFIABLE AS TO ITS CARCINOGENICITY  
BASED ON ITS IARC, ACGIH, NTP, OR EPA  
CLASSIFICATION.

IARC:

3 - GROUP 3: NOT CLASSIFIABLE AS TO ITS  
CARCINOGENICITY TO HUMANS (MERCURIC  
CHLORIDE)

NTP:

NO COMPONENT OF THIS PRODUCT PRESENT AT  
LEVELS GREATER THAN OR EQUAL TO 0.1% IS  
IDENTIFIED AS A KNOWN OR ANTICIPATED  
CARCINOGEN BY NTP.

OSHA:

NO COMPONENT OF THIS PRODUCT PRESENT AT  
LEVELS GREATER THAN OR EQUAL TO 0.1% IS  
IDENTIFIED AS A CARCINOGEN OR POTENTIAL  
CARCINOGEN BY OSHA.**REPRODUCTIVE TOXICITY**SUSPECTED HUMAN REPRODUCTIVE TOXICANT.  
OVEREXPOSURE MAY CAUSE REPRODUCTIVE  
DISORDER(S) BASED ON TESTS WITH LABORATORY  
ANIMALS.

|                                                           |                                                                                                                                                                                                                                       |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE</b>   | NO DATA AVAILABLE                                                                                                                                                                                                                     |
| <b>SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE</b> | CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.                                                                                                                                                                       |
| <b>ASPIRATION HAZARD</b>                                  | NO DATA AVAILABLE                                                                                                                                                                                                                     |
| <b>ADDITIONAL INFORMATION</b>                             | RTECS: OV9100000<br>MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE OF THE MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT, EYES, AND SKIN., COUGH, SHORTNESS OF BREATH, HEADACHE, NAUSEA STOMACH - IRREGULARITIES - BASED ON HUMAN EVIDENCE |

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## SECTION 12. ECOLOGICAL INFORMATION

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|                                                     |                                                                                                                                                       |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TOXICITY</b>                                     |                                                                                                                                                       |
| TOXICITY TO FISH                                    | MORTALITY LOEC - LATES CALCARIFER - 0.113 MG/L - 96.0 H<br>LC50 - ONCORHYNCHUS MYKISS (RAINBOW TROUT) - 0.016 MG/L - 96.0 H                           |
| TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES | EC50 - DAPHNIA MAGNA (WATER FLEA) - 0.002 MG/L - 48 H                                                                                                 |
| TOXICITY TO ALGAE                                   | GROWTH INHIBITION EC50 - DITYLUM BRIGHTWELLII - 0.01 MG/L - 5 D                                                                                       |
| <b>PERSISTENCE AND DEGRADABILITY</b>                | NO DATA AVAILABLE                                                                                                                                     |
| <b>BIOACCUMULATIVE POTENTIAL</b>                    |                                                                                                                                                       |
| BIOACCUMULATION                                     | PIMEPHALES PROMELAS (FATHEAD MINNOW) - 0.50 G/L<br>BIOCONCENTRATION FACTOR (BCF): 5,680                                                               |
| <b>MOBILITY IN SOIL</b>                             | NO DATA AVAILABLE                                                                                                                                     |
| <b>RESULTS OF PBT AND VPVB ASSESSMENT</b>           | PBT/VPVB ASSESSMENT NOT AVAILABLE AS CHEMICAL SAFETY ASSESSMENT NOT REQUIRED/NOT CONDUCTED                                                            |
| <b>OTHER ADVERSE EFFECTS</b>                        | AN ENVIRONMENTAL HAZARD CANNOT BE EXCLUDED IN THE EVENT OF UNPROFESSIONAL HANDLING OR DISPOSAL. VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS. |

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**SECTION 13. DISPOSAL CONSIDERATIONS**

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**WASTE TREATMENT METHODS**

|                               |                                                                                                                                                                                                                                                                                                      |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT</b>                | OFFER SURPLUS AND NON-RECYCLABLE SOLUTIONS TO A LICENSED DISPOSAL COMPANY. CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF THIS MATERIAL. DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER. |
| <b>CONTAMINATED PACKAGING</b> | DISPOSE OF AS UNUSED PRODUCT.                                                                                                                                                                                                                                                                        |

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**SECTION 14. TRANSPORT INFORMATION**

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**DOT (US)**

|                           |                   |
|---------------------------|-------------------|
| PROPER SHIPPING NAME:     | MERCURIC CHLORIDE |
| UN NUMBER:                | 1624              |
| CLASS:                    | 6.1               |
| PACKING GROUP:            | II                |
| REPORTABLE QUANTITY (RQ): |                   |
| POISON INHALATION HAZARD: | NO                |

**IMDG**

|                       |                   |
|-----------------------|-------------------|
| PROPER SHIPPING NAME: | MERCURIC CHLORIDE |
| UN NUMBER:            | 1624              |
| CLASS:                | 6.1               |
| PACKING GROUP:        | II                |
| EMS-NO:               | F-A, S-A          |
| MARINE POLLUTANT:     | YES               |

**IATA**

|                       |                   |
|-----------------------|-------------------|
| PROPER SHIPPING NAME: | MERCURIC CHLORIDE |
| UN NUMBER:            | 1624              |
| CLASS:                | 6.1               |
| PACKING GROUP:        | II                |

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**SECTION 15. REGULATORY INFORMATION**

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|                                               |                                                                                                                                                                                  |               |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>SARA 302 COMPONENTS</b>                    | THE FOLLOWING COMPONENTS ARE SUBJECT TO REPORTING LEVELS ESTABLISHED BY SARA TITLE III, SECTION 302:                                                                             |               |
|                                               | CAS-NO.                                                                                                                                                                          | REVISION DATE |
| Mercury(II) chloride                          | 7487-94-7                                                                                                                                                                        | 7/1/2007      |
| <b>SARA 313 COMPONENTS</b>                    | THIS MATERIAL DOES NOT CONTAIN ANY CHEMICAL COMPONENTS WITH KNOWN CAS NUMBERS THAT EXCEED THE THRESHOLD (DEMINIMIS) REPORTING LEVELS ESTABLISHED BY SARA TITLE III, SECTION 313. |               |
| <b>SARA 311/312 HAZARDS</b>                   | ACUTE HEALTH HAZARD, CHRONIC HEALTH HAZARD                                                                                                                                       |               |
| <b>MASSACHUSETTS RIGHT TO KNOW COMPONENTS</b> |                                                                                                                                                                                  |               |
|                                               | CAS-NO.                                                                                                                                                                          | REVISION DATE |
| Mercury(II) chloride                          | 7487-94-7                                                                                                                                                                        | 7/1/2007      |
| <b>PENNSYLVANIA RIGHT TO KNOW COMPONENTS</b>  |                                                                                                                                                                                  |               |
|                                               | CAS-NO.                                                                                                                                                                          | REVISION DATE |
| Mercury(II) chloride                          | 7487-94-7                                                                                                                                                                        | 7/1/2007      |
| <b>NEW JERSEY RIGHT TO KNOW COMPONENTS</b>    |                                                                                                                                                                                  |               |
|                                               | CAS-NO.                                                                                                                                                                          | REVISION DATE |
| Mercury(II) chloride                          |                                                                                                                                                                                  | 7/1/2007      |
| <b>CALIFORNIA PROP. 65 COMPONENTS</b>         | WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.                                                    |               |
|                                               | CAS-NO.                                                                                                                                                                          | REVISION DATE |
| Mercury(II) chloride                          | 7487-94-7                                                                                                                                                                        | 12/20/2013    |

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## SECTION 16. OTHER INFORMATION

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### FULL TEXT OF H-STATEMENTS REFERRED TO UNDER SECTIONS 2 AND 3.

|                 |                                                                 |
|-----------------|-----------------------------------------------------------------|
| ACUTE TOX.      | ACUTE TOXICITY                                                  |
| AQUATIC ACUTE   | ACUTE AQUATIC TOXICITY                                          |
| AQUATIC CHRONIC | CHRONIC AQUATIC TOXICITY                                        |
| EYE DAM.        | SERIOUS EYE DAMAGE                                              |
| H300            | FATAL IF SWALLOWED.                                             |
| H300 + H310     | FATAL IF SWALLOWED OR IN CONTACT WITH SKIN                      |
| H310            | FATAL IN CONTACT WITH SKIN.                                     |
| H314            | CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.                        |
| H318            | CAUSES SERIOUS EYE DAMAGE.                                      |
| H341            | SUSPECTED OF CAUSING GENETIC DEFECTS.                           |
| H361            | SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.            |
| H372            | CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE. |

### HMIS RATING

|                        |   |
|------------------------|---|
| HEALTH HAZARD:         | 4 |
| CHRONIC HEALTH HAZARD: | * |
| FLAMMABILITY:          | 0 |
| PHYSICAL HAZARD        | 0 |

**NFPA RATING**

|                    |   |
|--------------------|---|
| HEALTH HAZARD:     | 3 |
| FIRE HAZARD:       | 0 |
| REACTIVITY HAZARD: | 0 |

**MSDS LEGEND**

|        |                                                           |
|--------|-----------------------------------------------------------|
| MW:    | MOLECULAR WEIGHT                                          |
| MF:    | MOLECULAR FORMULA                                         |
| VOC:   | VOLATILE ORGANIC COMPOUNDS                                |
| ACGIH: | AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS |
| CAS:   | CHEMICAL ABSTRACTS SERVICE REGISTRY NUMBER                |
| OSHA:  | OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION             |
| PEL:   | PERMISSIBLE EXPOSURE LIMIT (OSHA)                         |
| TLV:   | THRESHOLD LIMIT VALUE (ACGIH)                             |

**IMPORTANT:**

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