

## MATERIAL SAFETY DATA SHEET (MSDS)

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form	:Substance
	:
CAS No	:7487-94-7
Product code	:04574
Synonyms	:Mercury(II) chloride

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Use of the substance/mixture :Laboratory chemicals, Manufacture of substances

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

LOBA CHEMIE PVT.LTD.  
 107 Wode House Road, Jehangir Villa, Colaba  
 400005 Mumbai - INDIA  
 T +91 22 6663 6663 - F +91 22 6663 6699  
[info@lobachemie.com](mailto:info@lobachemie.com) - [www.lobachemie.com](http://www.lobachemie.com)

#### 1.4. Emergency telephone number

Emergency number :+ 91 22 6663 6663 (9:00am - 6:00 pm)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 1	H300
Skin corrosion/irritation, Category 1	H314
Germ cell mutagenicity, Category 2	H341
Reproductive toxicity, Category 2	H361f
Specific target organ toxicity — Repeated exposure, Category 1	H372
Hazardous to the aquatic environment — Chronic Hazard, Category 1	H410

Full text of classification categories and H statements : see section 16

# MERCURIC CHLORIDE AR/ACS

## Safety Data Sheet

### Classification according to Directive 67/548/EEC or 1999/45/EC

Muta.Cat.3; R68

Repr.Cat.3; R62

T+; R28

T; R48/24/25

C; R34

N; R50/53

Full text of R-phrases: see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

## 2.2.

### Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)

:



GHS05



GHS06



GHS08



GHS09

Signal word (CLP)

:Danger

Hazard statements (CLP)

:H300 - Fatal if swallowed  
H314 - Causes severe skin burns and eye damage  
H341 - Suspected of causing genetic defects  
H361f - Suspected of damaging fertility  
H372 - Causes damage to organs through prolonged or repeated exposure  
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP)

:P264 - Wash ... thoroughly after handling  
P273 - Avoid release to the environment  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P301+P310 - IF SWALLOWED: immediately call a POISON CENTER or doctor/physician  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a POISON CENTER or doctor/physician

## 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Name :MERCURIC CHLORIDE AR/ACS

CAS No :7487-94-7

Full text of R- and H-phrases: see section 16

# MERCURIC CHLORIDE AR/ACS

## Safety Data Sheet

### 3.2. Mixture

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation	:Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after skin contact	:Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician. Gently wash with plenty of soap and water.
First-aid measures after eye contact	: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.
First-aid measures after ingestion	:Rinse mouth. Immediately call a POISON CENTER or doctor/physician. Specific treatment (see ... on this label). Do NOT induce vomiting.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries	:Causes severe skin burns and eye damage. Suspected of causing genetic defects. Suspected of damaging fertility. Causes damage to organs through prolonged or repeated exposure.
Symptoms/injuries after ingestion	:Fatal if swallowed.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Unsuitable extinguishing media	:Do not use a heavy water stream.
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### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

Protection during firefighting	:Do not attempt to take action without suitable protective equipment.
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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures	:Evacuate unnecessary personnel.
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#### 6.1.2. For emergency responders

Protective equipment	:Avoid breathing dust/fume/gas/mist/vapours/spray.
Emergency procedures	:Stop release.

### 6.2. Environmental precautions

Very toxic to aquatic life with long lasting effects.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up	:Clear up rapidly by scoop or vacuum.
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### 6.4. Reference to other sections

No additional information available

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling	:Do not breathe dust/fume/gas/mist/vapours/spray.
Hygiene measures	:Wash ... thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures	:Comply with applicable regulations.
Storage conditions	:Store in original container. Keep container tightly closed.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

Personal protective equipment	:Wash ... thoroughly after handling.
Hand protection	:protective gloves
Eye protection	:Chemical goggles or face shield
Skin and body protection	:Wear suitable protective clothing
Respiratory protection	:Where exposure through inhalation may occur from use, respiratory protection equipment is recommended
Other information	:Do not breathe dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	:Solid
Molecular mass	:271.5 g/mol
Colour	:White crystals.
Odour	:odourless.
Odour threshold	:No data available
pH	:3.2 (0,2 M solution)
Relative evaporation rate (butylacetate=1)	:No data available
Melting point	:277 °C
Freezing point	:No data available
Boiling point	:302 °C
Flash point	:No data available

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Auto-ignition temperature	:No data available
Decomposition temperature	:No data available
Flammability (solid, gas)	:No data available
Vapour pressure	:1 mm Hg at 136.20C
Relative vapour density at 20 °C	:8.7
Relative density	:No data available
Density	:5.4 g/cm <sup>3</sup>
Solubility	:Water: 7.4 g/100ml
Log Pow	:No data available
Viscosity, kinematic	:No data available
Viscosity, dynamic	:No data available
Explosive properties	:No data available
Oxidising properties	:No data available
Explosive limits	:No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Thermal decomposition generates : Corrosive vapours.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Thermal decomposition generates : Corrosive vapours.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity	:Oral: Fatal if swallowed.
Skin corrosion/irritation	:Causes severe skin burns and eye damage. pH: 3.2 (0,2 M solution)
Serious eye damage/irritation	:Serious eye damage, category 1, implicit pH: 3.2 (0,2 M solution)

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Respiratory or skin sensitisation	:Not classified
Germ cell mutagenicity	:Suspected of causing genetic defects.
Carcinogenicity	:Not classified
Reproductive toxicity	:Suspected of damaging fertility.
Specific target organ toxicity (single exposure)	:Not classified
Specific target organ toxicity (repeated exposure)	:Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	:Not classified
Potential adverse human health effects and symptoms	:Fatal if swallowed.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - water :Very toxic to aquatic life with long lasting effects.

#### 12.2. Persistence and degradability

<b>MERCURIC CHLORIDE AR/ACS (787-94-7)</b>
Persistence and degradability : May cause long-term adverse effects in the environment.

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations	:Dispose of contents/container to ...
Ecology - waste materials	:Hazardous waste due to toxicity.

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### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

UN-No. (ADR)	:1624
UN-No. (IMDG)	:1624
UN-No.(IATA)	:1624
UN-No.(ADN)	:1624
UN-No. (RID)	:1624

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR)	:MERCURIC CHLORIDE
Proper Shipping Name (IMDG)	:MERCURIC CHLORIDE
Proper Shipping Name (IATA)	:MERCURIC CHLORIDE
Proper Shipping Name (ADN)	:MERCURIC CHLORIDE
Proper Shipping Name (RID)	:MERCURIC CHLORIDE
Transport document description (ADR)	:UN 1624 MERCURIC CHLORIDE, 6.1, II, (D/E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	:UN 1624 MERCURIC CHLORIDE, 6.1, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	:UN 1624 MERCURIC CHLORIDE, 6.1, II, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN)	:UN 1624 MERCURIC CHLORIDE, 6.1, II, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID)	:UN 1624 MERCURIC CHLORIDE, 6.1, II, ENVIRONMENTALLY HAZARDOUS

#### 14.3. Transport hazard class(es)

##### ADR

Transport hazard class(es) (ADR)	:6.1
Danger labels (ADR)	:6.1



##### IMDG

Transport hazard class(es) (IMDG)	:6.1
Danger labels (IMDG)	:6.1



##### IATA

Transport hazard class(es) (IATA)	:6.1
Hazard labels (IATA)	:6.1



##### ADN

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Transport hazard class(es) (ADN) :6.1  
Danger labels (ADN) :6.1



### RID

Transport hazard class(es) (RID) :6.1  
Danger labels (RID) :6.1



### 14.4. Packing group

Packing group (ADR) :II  
Packing group (IMDG) :II  
Packing group (IATA) :II  
Packing group (ADN) :II  
Packing group (RID) :II

### 14.5. Environmental hazards

Dangerous for the environment :Yes  
Marine pollutant :Yes  
Other information :No supplementary information available

### 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR) :T5  
Limited quantities (ADR) :500g  
Excepted quantities (ADR) :E4  
Packing instructions (ADR) :P002, IBC08  
Special packing provisions (ADR) :B4  
Mixed packing provisions (ADR) :MP10  
Portable tank and bulk container instructions (ADR) :T3  
Portable tank and bulk container special provisions (ADR) :TP33  
Tank code (ADR) :SGAH  
Tank special provisions (ADR) :TU15, TE19  
Vehicle for tank carriage :AT  
Transport category (ADR) :2  
Special provisions for carriage - Packages (ADR) :V11  
Special provisions for carriage - Loading, unloading and handling (ADR) :CV13, CV28  
Special provisions for carriage - Operation (ADR) :S9, S19  
Hazard identification number (Kemler No.) :60



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Orange plates :



Tunnel restriction code (ADR) :D/E  
EAC code :2X

### - Transport by sea

Limited quantities (IMDG) :500 g  
Excepted quantities (IMDG) :E4  
Packing instructions (IMDG) :P002  
IBC packing instructions (IMDG) :IBC08  
IBC special provisions (IMDG) :B2, B4  
Tank instructions (IMDG) :T3  
Tank special provisions (IMDG) :TP33  
EmS-No. (Fire) :F-A  
EmS-No. (Spillage) :S-A  
Stowage category (IMDG) :A  
MFAG-No :154

### - Air transport

PCA Excepted quantities (IATA) :E4  
PCA Limited quantities (IATA) :Y644  
PCA limited quantity max net quantity (IATA) :1kg  
PCA packing instructions (IATA) :669  
PCA max net quantity (IATA) :25kg  
CAO packing instructions (IATA) :676  
CAO max net quantity (IATA) :100kg  
ERG code (IATA) :6L

### - Inland waterway transport

Classification code (ADN) :T5  
Special provisions (ADN) :802  
Limited quantities (ADN) :500 g  
Excepted quantities (ADN) :E4  
Equipment required (ADN) :PP, EP  
Number of blue cones/lights (ADN) :2

### - Rail transport

Classification code (RID) :T5  
Limited quantities (RID) :500g  
Excepted quantities (RID) :E4  
Packing instructions (RID) :P002, IBC08  
Special packing provisions (RID) :B4  
Mixed packing provisions (RID) :MP10  
Portable tank and bulk container instructions (RID) :T3  
Portable tank and bulk container special provisions (RID) :TP33  
Tank codes for RID tanks (RID) :SGAH  
Special provisions for RID tanks (RID) :TU15  
Transport category (RID) :2  
Special provisions for carriage – Packages (RID) :W11

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Special provisions for carriage – Loading and unloading (RID) :CW13, CW28, CW31  
Colis express (express parcels) (RID) :CE9  
Hazard identification number (RID) :60

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1.EU-Regulations

No REACH Annex XVII restrictions  
MERCURIC CHLORIDE AR/ACS is not on the REACH Candidate List  
MERCURIC CHLORIDE AR/ACS is not on the REACH Annex XIV List

#### 15.1.2.National regulations

##### Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV :Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

##### Denmark

Recommendations Danish Regulation :Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product  
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Acute Tox. 1 (Oral)	Acute toxicity (oral), Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Muta. 2	Germ cell mutagenicity, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1	Skin corrosion/irritation, Category 1
STOT RE 1	Specific target organ toxicity Repeated exposure, Category 1

# MERCURIC CHLORIDE AR/ACS

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H300	Fatal if swallowed
H314	Causes severe skin burns and eye damage
H341	Suspected of causing genetic defects
H361f	Suspected of damaging fertility
H372	Causes damage to organs through prolonged or repeated exposure
H410	Very toxic to aquatic life with long lasting effects
R28	Very toxic if swallowed
R34	Causes burns
R48/24/25	Toxic: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R62	Possible risk of impaired fertility
R68	Possible risk of irreversible effects
C	Corrosive
N	Dangerous for the environment
T	Toxic
T+	Very toxic

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*