

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 SDS Reference Number: 04585

Issue date: 9/2/2024 Revision date: 9/2/2024 Version: 1.0

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

#### 1.1. Product identifier

Product form Substance

Trade name MERCURIC SULPHATE AR/ACS

EC Index-No. 080-002-00-6 EC-No. 231-992-5 CAS-No. 7783-35-9 Product code 04585

Type of product Inorganic compound

HgSO4 Formula

Chemical structure

Synonyms : Mercury persulphate, Mercury bisulphate, Mercury (II) sulphate

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

#### Relevant identified uses

Industrial/Professional use spec : Industrial

For professional use only

Use of the substance/mixture Laboratory chemicals

Manufacture of substances

## 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, 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 Acute toxicity (dermal), Category 1 H310 Acute toxicity (inhal.), Category 2 H330 Specific target organ toxicity - Repeated exposure, Category 2 H373 Hazardous to the aquatic environment – Chronic Hazard, H410

Category 1

Full text of H- and EUH-statements: see section 16

#### Adverse physicochemical, human health and environmental effects

May cause damage to organs through prolonged or repeated exposure. Fatal in contact with skin. Fatal if swallowed. Fatal if inhaled. Very toxic to aquatic life with long lasting effects.

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#### 2.2. Label elements

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

Hazard pictograms (CLP)







GHS06

GHS08

GHS09

Signal word (CLP)

: Danger

Hazard statements (CLP)

: H300+H310+H330 - Fatal if swallowed, in contact with skin or if inhaled.

H373 - May cause damage to organs through prolonged or repeated exposure.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, respiratory protection, protective clothing, eye protection,

face protection.

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P302+P352 - IF ON SKIN: Wash with plenty of water.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

#### 2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

## **SECTION 3: Composition/information on ingredients**

## 3.1. Substances

Substance type : Mono-constituent

Name	Product identifier	%
MERCURIC SULPHATE	CAS-No.: 7783-35-9 EC-No.: 231-992-5 EC Index-No.: 080-002-00-6	100

## **SECTION 4: First aid measures**

First-aid measures after ingestion

## 4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial

respiration if necessary. If you feel unwell, seek medical advice. Call a physician

immediately. Call a doctor.

First-aid measures after skin contact : Gently wash with plenty of soap and water. Wash skin with plenty of water. Take off

immediately all contaminated clothing. Call a physician immediately.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with

water for several minutes. If eye irritation persists: Get medical advice/attention.

: Rinse mouth out with water. If you feel unwell, seek medical advice. Rinse mouth. Call a

physician immediately.

First-aid measures for first aider : First aid workers will be equipped with suitable personal protective equipment.

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

Symptoms/effects : May cause damage to organs through prolonged or repeated exposure.

Symptoms/effects after inhalation : Dust of the product, if present, may cause respiratory irritation after an excessive inhalation

exposure. Although no appropriate human or animal health effects data are known to exist,

this material is expected to be an inhalation hazard.

Symptoms/effects after skin contact : Fatal in contact with skin.

Symptoms/effects after eye contact : None under normal conditions. Dust from this product may cause eye irritation.

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Symptoms/effects 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

Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). Water spray. Dry

powder. Foam.

Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : No fire hazard.

Explosion hazard : No direct explosion hazard. Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper

protective equipment, including respiratory protection.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

## **SECTION 6: Accidental release measures**

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

General measures : Notify authorities if product enters sewers or public waters. Absorb spillage to prevent

material damage.

For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Evacuate unnecessary personnel. Do not breathe dust/fume/gas/mist/vapours/spray. Only

qualified personnel equipped with suitable protective equipment may intervene.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Use personal protective

equipment as required. For further information refer to section 8: "Exposure

controls/personal protection".

Emergency procedures : Stop release. Evacuate unnecessary personnel.

### 6.2. Environmental precautions

Avoid release to the environment. Very toxic to aquatic life with long lasting effects.

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

For containment : Collect spillage.

Methods for cleaning up : Mechanically recover the product. Clear up rapidly by scoop or vacuum.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

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Precautions for safe handling : Do not get in eyes, on skin, or on clothing. Do not breathe

dust/fume/gas/mist/vapours/spray. Wear personal protective equipment. Use only outdoors

or in a well-ventilated area.

Hygiene measures : Wash hands, forearms and face thoroughly after handling. Do not eat, drink or smoke when

using this product. Wash contaminated clothing before reuse. Always wash hands after

handling the product.

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

Technical measures : Keep in a cool, well-ventilated place away from heat.

Storage conditions : Store in original container. Keep container tightly closed. Protect from moisture. Store

locked up. Store in a well-ventilated place.

Packaging materials : Store always product in container of same material as original container.

## 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

#### **Appropriate engineering controls**

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

## Personal protection equipment

#### Personal protective equipment:

Wear recommended personal protective equipment.

#### Personal protective equipment symbol(s):







#### Eye and face protection

#### Eye protection:

Chemical goggles or safety glasses

## Skin protection

#### Skin and body protection:

Wear a mask

#### Hand protection:

Protective gloves

## Respiratory protection

### Respiratory protection:

Wear appropriate mask. [In case of inadequate ventilation] wear respiratory protection.

#### **Environmental exposure controls**

## **Environmental exposure controls:**

Avoid release to the environment.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Solid

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Colour : White to off white. Appearance Crystalline powder. Molecular mass 296.65 g/mol Odourless. Odour Odour threshold Not available Melting point Not available Freezing point Not applicable Boiling point Not available Flammability : Not available : Not applicable Lower explosion limit Upper explosion limit : Not applicable : Not applicable Flash point : Not applicable Auto-ignition temperature Decomposition temperature : 450 °C рΗ : Not available pH solution : Not available

Solubility : Water: Reacts with water

Ethanol: Insoluble in Ethanol Ether: Insoluble in Acetone

: Not applicable

Partition coefficient n-octanol/water (Log Kow)

I Not available
Vapour pressure
Vapour pressure at 50°C

Density

Relative density

I Not available

Solution of the Action of Company of Company

Solution of Company

So

Relative vapour density at 20°C : Not applicable Particle size : Not available

#### 9.2. Other information

Viscosity, kinematic

No additional information available

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

## 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

## 10.4. Conditions to avoid

Direct sunlight. Air contact. Moisture.

#### 10.5. Incompatible materials

No additional information available

## 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Fatal if swallowed.

Acute toxicity (dermal) : Fatal in contact with skin.

Acute toxicity (inhalation) : Fatal if inhaled.

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Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

Additional information : There are potential chronic health effects to consider

Aspiration hazard : Not classified

## **MERCURIC SULPHATE AR/ACS (7783-35-9)**

Viscosity, kinematic Not applicable

#### 11.2. Information on other hazards

#### Other information

Potential adverse human health effects and

symptoms

: Fatal if swallowed, Fatal in contact with skin.

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

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

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

: Not classified

Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

: Very toxic to aquatic life with long lasting effects.

## 12.2. Persistence and degradability

## **MERCURIC SULPHATE AR/ACS (7783-35-9)**

Persistence and degradability Rapidly degradable

## 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. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

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Sewage disposal recommendations : Disposal must be done according to official regulations.

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance

with local, regional, national and/or international regulation. Disposal must be done

according to official regulations.

Additional information : Do not re-use empty containers. Ecological information : Hazardous waste due to toxicity.

## **SECTION 14: Transport information**

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

#### 14.1. UN number or ID number

 UN-No. (ADR)
 : UN 1645

 UN-No. (IMDG)
 : UN 1645

 UN-No. (IATA)
 : UN 1645

 UN-No. (ADN)
 : UN 1645

 UN-No. (RID)
 : UN 1645

## 14.2. UN proper shipping name

Proper Shipping Name (ADR) : MERCURY SULPHATE
Proper Shipping Name (IMDG) : MERCURY SULPHATE
Proper Shipping Name (IATA) : Mercury sulphate
Proper Shipping Name (ADN) : MERCURY SULPHATE
Proper Shipping Name (RID) : MERCURY SULPHATE

Transport document description (ADR) : UN 1645 MERCURY SULPHATE, 6.1, II, (D/E)

Transport document description (IMDG) : UN 1645 MERCURY SULPHATE, 6.1, II, MARINE POLLUTANT/ENVIRONMENTALLY

HAZARDOUS

Transport document description (IATA) : UN 1645 Mercury sulphate, 6.1, II, ENVIRONMENTALLY HAZARDOUS

Transport document description (ADN) : UN 1645 MERCURY SULPHATE, 6.1, II, ENVIRONMENTALLY HAZARDOUS

Transport document description (RID) : UN 1645 MERCURY SULPHATE, 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

Danger labels (IATA) : 6.1



#### **ADN**

Transport hazard class(es) (ADN) : 6.1

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Danger labels (ADN) : 6.1

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#### **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
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-A

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 : TP33

(ADR)

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 : CV13, CV28

and handling (ADR)

Special provisions for carriage - Operation (ADR) : S9, S19 Hazard identification number (Kemler No.) : 60

Orange plates :

60 1645

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

### Transport by sea

Limited quantities (IMDG): 500 gExcepted quantities (IMDG): E4Packing instructions (IMDG): P002IBC packing instructions (IMDG): IBC08

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IBC special provisions (IMDG): B21, B4Tank instructions (IMDG): T3Tank special provisions (IMDG): TP33Stowage category (IMDG): A

Segregation (IMDG) : SGG7, SGG11

Properties and observations (IMDG) : White crystals or powder. Decomposes in water, forming sulphuric acid. Toxic if swallowed,

by skin contact or by dust inhalation.

MFAG-No : 15

#### 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 : TP33

(RID)

Tank codes for RID tanks (RID): SGAHSpecial provisions for RID tanks (RID): TU15Transport category (RID): 2Special provisions for carriage – Packages (RID): W11

Special provisions for carriage - Loading, unloading : CW13, CW28, CW31

and handling (RID)

Colis express (express parcels) (RID) : CE9
Hazard identification number (RID) : 60

## 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## **SECTION 15: Regulatory information**

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

## **EU-Regulations**

#### **REACH Annex XVII (Restriction List)**

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
18.	MERCURIC SULPHATE AR/ACS

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#### **REACH Annex XIV (Authorisation List)**

Not listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Not listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Listed on the PIC list (Regulation EU 649/2012): mercury sulphate

#### **POP Regulation (Persistent Organic Pollutants)**

Not listed on the POP list (Regulation EU 2019/1021)

#### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

#### Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### **National regulations**

#### **France**

Occupational diseases	
Code	Description
RG 2	Occupational diseases caused by mercury and its compounds

#### Germany

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV).

Chemicals Prohibition Ordinance (ChemVerbotsV) : This product is subject to ChemVerbotsV Annex 2 Entry 1. The following requirements must

be observed: authorization requirement (according to § 6 paragraph 1 sentence 1), basic requirements for carrying out the delivery (according to § 8 paragraph 1, 3 and 4), identification and documentation (according to § 9 paragraph 1 to 3) and exclusion of the

shipping route (according to § 10).

Hazardous Incident Ordinance (12. BImSchV) : Is not subject to the Hazardous Incident Ordinance (12. BImSchV)

#### **Netherlands**

SZW-lijst van kankerverwekkende stoffen : The substance is not listed SZW-lijst van mutagene stoffen : The substance is not listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : The substance is not listed SZW-lijst van reprotoxische stoffen – : The substance is not listed

SZW-lijst van reprotoxische stoffen – : The substance is Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – Ontwikkeling : The substance is not listed

#### Denmark

Danish National Regulations : 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

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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## **SECTION 16: Other information**

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disruptor	

Full text of H- and EUH-statements:	
Acute Tox. 1 (Dermal)	Acute toxicity (dermal), Category 1

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Full text of H- and EUH-statements:	
Acute Tox. 1 (Oral)	Acute toxicity (oral), Category 1
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
H300	Fatal if swallowed.
H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2

Safety Data Sheet (SDS), EU

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.