MERCUROUS SULPHATE EXTRA PURE MSDS



CAS No: 7783-36-0 MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

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

1.1. Product identifier	
Product form	: Substance
	:
EC no	: 231-993-0
CAS No	: 7783-36-0
Product code	: 4592D
Synonyms	: Mercury(I) sulfate

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 - 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), H300 Category 1 Acute toxicity (dermal), H310 Category 1 Acute toxicity (inhal.), H330 Category 1 Specific target organ H373 toxicity - Repeated exposure, Category 2 Hazardous to the aquatic H410 environment — Chronic Hazard, Category 1

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

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

Not classified

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)	
	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 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 P330 - Rinse mouth P302+P352 - IF ON SKIN: Wash with plenty of water/ P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing P310 - Immediately call a POISON CENTER/doctor/

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Name	Product identifier	%
MERCUROUS SULPHATE Extra Pure	(CAS No) 7783-36-0 (EC no) 231-993-0	100

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

3.2. Mixture

Not applicable

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SECTION 4: First aid measures

4.1. Description of first aid measures	3
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.
First-aid measures after skin contact	: Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.
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.
First-aid measures after ingestion	: Rinse mouth out with water. If you feel unwell, seek medical advice.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/injuries	: Causes damage to organs through prolonged or repeated exposure.
Symptoms/injuries after inhalation	: Fatal if inhaled.
Symptoms/injuries after skin contact	: Fatal in contact with skin.
Symptoms/injuries after ingestion	: Fatal if swallowed.
4.3. Indication of any immediate med	lical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
	, dry chamical pourday, clacked registerst form, carbon disvide (CO2)
Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
Unsuitable extinguishing media	: Do not use a heavy water stream.
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.
SECTION 6: Accidental release measure	S
	s equipment and emergency procedures
6.1. Personal precautions, protective	
6.1.Personal precautions, protective6.1.1.For non-emergency personnel	equipment and emergency procedures
 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders 	equipment and emergency procedures : Evacuate unnecessary personnel.
 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 	 equipment and emergency procedures Evacuate unnecessary personnel. Use personal protective equipment as required.
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 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contain Methods for cleaning up 6.4. Reference to other sections No additional information available SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling 	 equipment and emergency procedures Evacuate unnecessary personnel. Use personal protective equipment as required. Stop release. nment and cleaning up Clear up rapidly by scoop or vacuum. • Do not get in eyes, on skin, or on clothing. • Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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7.3.	Specific end use(s)			
No ad	ditional information available			
SECT	FION 8: Exposure controls/personal prote	ection		
0.4	Control parameters			
8.1.				

Hand protectioniprotective glovesEye protectioniChemical goggles or safety glassesSkin and body protectioniWear suitable protective clothingRespiratory protectioniWear respiratory protectionSECTION 9: Physical and chemical propertiesPhysical and chemical propertiesPhysical and chemical propertiesSolidMolecular massi20 douri97.24 g/molColouriNo data availableOdour thresholdiNo data availablepHiNo data availablepHiNo data availableRelative evaporation rate (butylacettat=1)iiNo data availableFreezing pointiNo data availableFinezing pointiNo data availableBiling pointiNo data availableFinezing pointiNo data availabl
Skin and body protection: Wear suitable protective clothingRespiratory protection: Wear respiratory protectionSECTION 9: Physical and chemical properties9.1. Information on basic physical and chemical propertiesPhysical state: SolidMolecular mass: 497.24 g/molColour: White to beige powder.Odour: No data availableOdour threshold: No data availablepH: No data availableRelative evaporation rate (butylacetate=1): No data availableFreezing point: No data availableFreezing point: No data availableFreezing point: No data availableSting point: No data available </td
Respiratory protection : Wear respiratory protection SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties Physical state : Solid Molecular mass : 497.24 g/mol Colour : White to beige powder. Odour : No data available Odour threshold : No data available pH : No data available Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available Freezing point : No data available Boiling point : No data available Boiling point : No data available
SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties Physical state : Solid Molecular mass : 497.24 g/mol Colour : White to beige powder. Odour : No data available Odour threshold : No data available pH : No data available Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available Freezing point : No data available Boiling point : No data available
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Physical state: SolidMolecular mass Colour: 497.24 g/mol : White to beige powder.Odour: No data availableOdour threshold: No data availablepH: No data availableRelative evaporation rate (butylacetate=1) : Freezing point: No data availableFreezing point: No data availableBoiling point: No data availableSolid available: No data availableFreezing point: No data availableBoiling point: No data availableSolid available: No data availableSolid available: No data availableFreezing point: No data availableSolid available: No data avail
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Melting point : No data available Freezing point : No data available Boiling point : No data available
Freezing point : No data available Boiling point : No data available
Boiling point : No data available
Flash point : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : No data available
Solubility : No data available
Log Pow : No data available
Viscosity, kinematic : No data available

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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	
No additional information available	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reac	tions
No additional information available	
10.4. Conditions to avoid	
Direct sunlight. Air contact. Moisture.	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition pr	oducts
No additional information available	
SECTION 11: Toxicological information	n
11.1. Information on toxicological	: Oral: Fatal if swallowed. Dermal: Fatal in contact with skin. Inhalation: Fatal if
Acute toxicity	inhaled.
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 Specific target organ toxicity (single : Not classified exposure)

Specific target organ toxicity (repeated exposure)

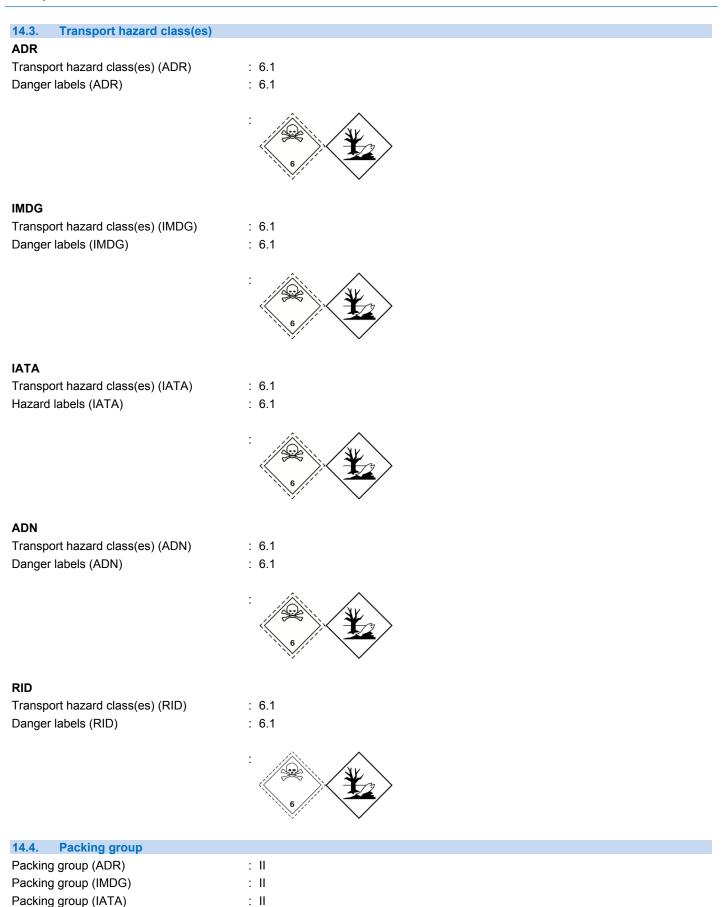
: May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

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SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
No additional information available	
40.0 Disconversion	
12.3. Bioaccumulative potential No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assess	sment
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
No additional information available	
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA	A / ADN
14.1. UN number	
UN-No. (ADR)	: 1645
UN-No. (IMDG)	: 1645
UN-No.(IATA)	: 1645
UN-No.(ADN)	: 1645
UN-No. (RID)	: 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), ENVIRONMENTALLY HAZARDOUS
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

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Packing group (ADN)

: 11

: 11

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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
Orange plates	
	60
	1645
Tunnel restriction code (ADR)	1645 : D/E
Tunnel restriction code (ADR) EAC code	
	: D/E
EAC code	: D/E
EAC code - Transport by sea	: D/E : 2X
EAC code - Transport by sea Limited quantities (IMDG)	: D/E : 2X : 500 g
EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG)	: D/E : 2X : 500 g : E4
EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG)	: D/E : 2X : 500 g : E4 : P002
EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG)	: D/E : 2X : 500 g : E4 : P002 : IBC08
EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG)	: D/E : 2X : 500 g : E4 : P002 : IBC08 : B2, B4
EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG)	: D/E : 2X : 500 g : E4 : P002 : IBC08 : B2, B4 : T3
EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire)	: D/E : 2X : 500 g : E4 : P002 : IBC08 : B2, B4 : T3 : TP33
EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG)	 D/E 2X 500 g E4 P002 IBC08 B2, B4 T3 TP33 F-A
EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage)	: D/E : 2X : 500 g : E4 : P002 : IBC08 : B2, B4 : T3 : TP33 : F-A : S-A
EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG)	: D/E : 2X : 500 g : E4 : P002 : IBC08 : B2, B4 : T3 : TP33 : F-A : S-A
EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) - Air transport	: D/E : 2X : 500 g : E4 : P002 : IBC08 : B2, B4 : T3 : TP33 : F-A : S-A : A
EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) - Air transport PCA Excepted quantities (IATA)	 D/E 2X 500 g E4 P002 IBC08 B2, B4 T3 TP33 F-A S-A A
EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) - Air transport PCA Excepted quantities (IATA) PCA limited quantity max net quantity	 D/E 2X 500 g E4 P002 IBC08 B2, B4 T3 TP33 F-A S-A A E4 Y644
EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) - Air transport PCA Excepted quantities (IATA) PCA limited quantity max net quantity (IATA)	 D/E 2X 500 g E4 P002 IBC08 B2, B4 T3 TP33 F-A S-A A E4 Y644 1kg

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CAO packing instructions (IATA)	:	676
CAO max net quantity (IATA)	:	100kg
ERG code (IATA)	:	6L
- Inland waterway transport		
Classification code (ADN)	:	Т5
Special provisions (ADN)		802
Limited quantities (ADN)		500 q
Excepted quantities (ADN)		E4
Equipment required (ADN)	-	PP. EP
Number of blue cones/lights (ADN)		2
	-	_
- Rail transport		
Classification code (RID)	-	Т5
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)	:	Т3
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
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 MERCUROUS SULPHATE Extra Pure is not on the REACH Candidate List MERCUROUS SULPHATE Extra Pure is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

AwSV/VwVwS Annex reference

: Water hazard class (WGK) 3, strongly hazardous to water (Classification according to VwVwS, Annex 2; WGK No 411)

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

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

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

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

Acute toxicity (dermal), Category 1	
Acute toxicity (inhal.), Category 1	
Acute toxicity (oral), Category 1	
Hazardous to the aquatic environment — Chronic Hazard, Category 1	
Specific target organ toxicity — Repeated exposure, Category 2	
Fatal if swallowed	
Fatal in contact with skin	
Fatal if inhaled	
May cause damage to organs through prolonged or repeated exposure	
Very toxic to aquatic life with long lasting effects	

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