# SAFETY DATA SHEET

Revision date 13-February-2020

1. Identification		
Product identifier		
Product Name	MERCURIC SULFATE, POWDER, REAGENT, ACS	
Other means of identification		
Product Code(s)	M1185	
UN/ID no	UN1645	
Synonyms	None	
Recommended use of the chemical and restrictions on use		
Recommended use	No information available	
Restrictions on use	No information available	
Details of the supplier of the safety data sheet		
Supplier Address Spectrum Chemical Mfg. Corp. 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000		
Emergency telephone number		

Emergency Telephone

Chemtrec 1-800-424-9300

#### 2. Hazard(s) identification

#### **Classification**

Acute toxicity - Oral	Category 3
Acute toxicity - Dermal	Category 3
Acute toxicity - Inhalation (Gases)	Category 2
Acute toxicity - Inhalation (Dusts/Mists)	Category 2
Specific target organ toxicity (repeated exposure)	Category 2

#### Hazards not otherwise classified (HNOC)

Not applicable

#### Label elements

Danger

Hazard statements	
Toxic if swallowed	
Toxic in contact with s	skin



#### Revision Number 2

#### Fatal if inhaled May cause damage to organs through prolonged or repeated exposure



Physical state Solid

Odor Odorless

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves/protective clothing Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wear respiratory protection

#### **Precautionary Statements - Response**

Specific treatment (see .? on this label) Specific treatment is urgent (see .? on this label) Get medical advice/attention if you feel unwell IF ON SKIN: Wash with plenty of water and soap Call a POISON CENTER or doctor if you feel unwell Take off immediately all contaminated clothing and wash it before reuse IF INHALED: Remove person to fresh air and keep comfortable for breathing Immediately call a POISON CENTER or doctor IF SWALLOWED: Immediately call a POISON CENTER or doctor Rinse mouth

#### **Precautionary Statements - Storage**

Store locked up Store in a well-ventilated place. Keep container tightly closed

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Unknown acute toxicity

#### Other information

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

#### 3. Composition/information on ingredients

#### Substance

Chemical name	CAS No	Weight-%	Trade secret
Mercuric Sulfate	7783-35-9	100	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. First-aid measures

#### **Description of first aid measures**

**General advice** 

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Inhalation	If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Do not breathe dust. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen.	
Eye contact	Get immediate medical advice/attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing.	
Skin contact	Get immediate medical advice/attention. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.	
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.	
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Do not breathe dust. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Use personal protective equipment as required. See section 8 for more information.	
Most important symptoms and effects, both acute and delayed		
Symptoms	Coughing and/ or wheezing. Difficulty in breathing.	
Indication of any immediate medical attention and special treatment needed		
Note to obviolation a		

Note to physicians Tre	at symptomatically.
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# 5. Fire-fighting measures

Suitable Extinguishing Media Large Fire	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	No information available.
Explosion data Sensitivity to mechanical impac	ct none.
Sensitivity to static discharge	none.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid generation of dust. Do not breathe dust. Keep people away from and upwind of spill/leak.
Other information	Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

7. Handling and storage	
Precautions for safe handling	
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse. Do not breathe dust. Avoid generation of dust. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product.
Conditions for safe storage, including any incompatibilities	

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach
	of children. Store locked up.

# 8. Exposure controls/personal protection

#### Control parameters

Exposure Limits	The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.	
Appropriate engineering controls		
Engineering controls	Showers Eyewash stations Ventilation systems.	
Individual protection measures, such as personal protective equipment		
Eye/face protection	Wear safety glasses with side shields (or goggles).	
Hand protection	Wear suitable gloves. Impervious gloves.	
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.	
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.	
General hygiene considerations	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not breathe dust. Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace.	

# 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Appearance Color Odor Odor threshold	Solid crystalline powder white Odorless No information available	
Property_	Values	Remarks • Method
pH	no data available	None known
Melting point / freezing point	no data available	None known
Boiling point / boiling range	no data available	None known
Flash point	no data available	None known
Evaporation rate	no data available	None known
Flammability (solid, gas)	no data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Vapor pressure	No data available	None known
Vapor density	no data available	None known
Relative density	6.47	None known
Water solubility	No data available	None known
Solubility(ies)	no data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	no data available	None known
Decomposition temperature		None known
Kinematic viscosity	no data available	None known
Dynamic viscosity	No data available	None known
Other information		
Explosive properties	No information available	
Oxidizing properties	No information available	
Softening point	No information available	
Molecular weight	No information available	
VOC Content (%)	No information available	
Liquid Density	No information available	
Bulk density	No information available	

No information available

# 10. Stability and reactivity

. Bulk density

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Excessive heat.
Incompatible materials	None known based on information supplied.

Hazardous decomposition products Spontaneous polymerisation.

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## 11. Toxicological information

Information on likely routes of exposure

#### **Product Information**

Inhalation	Specific test data for the substance or mixture is not available. Fatal if inhaled. (based on components).
Eye contact	Specific test data for the substance or mixture is not available.

#### Skin contact Specific test data for the substance or mixture is not available. Toxic in contact with skin. (based on components). Ingestion

Specific test data for the substance or mixture is not available. Toxic if swallowed. (based on components).

#### Symptoms related to the physical, chemical and toxicological characteristics

Coughing and/ or wheezing. Difficulty in breathing. Symptoms

Acute toxicity

Numerical measures of toxicity

#### Unknown acute toxicity

	57 mg/kg 625		
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Mercuric Sulfate 7783-35-9	= 57 mg/kg (Rat)	= 625 mg/kg (Rat)	-

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Serious eye damage/eye Respiratory or skin sens Germ cell mutagenicity Carcinogenicity The table below indicates	irritation No informat itization No informat No informat No informat			
Chemical name	ACGIH	IARC	NTP	OSHA
Mercuric Sulfate 7783-35-9	-	Group 3 - monograph 58 [1993] (listed under Mercury inorganic compounds)	-	-
Legend     No information available.				
STOT - single exposure STOT - repeated exposu Target organ effects	re May cause	No information available. May cause damage to organs through prolonged or repeated exposure. kidney, respiratory system, Eyes, Skin, central nervous system.		osure.

Aspiration hazard	No information available.
Other adverse effects	No information available.
Interactive effects	No information available.

#### 12. Ecological information

Ecotoxicity	Very toxic to	aquatic life with long lastin	g effects.	
Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Mercuric Sulfate	EC50 -	LC50 - Oncorhynchus	-	-
7783-35-9	Pseudokirchneriella	gorbuscha (Pink Salmon)		
	subcapitata (green algae)	0.14-0.220 mg/l - 7 days		
	0.030 mg/l - 14 days	LC50 - Oncorhynichus		
	EC50 - Microcoleus	nerka (Sockeye Salmon)		
	vaginatus (blue-green	0.180-0.310 mg/l - 7 days		
	algae) 0.253 mg/l -14			
	days			

Persistence and degradability

No information available.

#### **Bioaccumulation**

Inherently biodegradable.

Other adverse effects

No information available.

# 13. Disposal considerations Waste treatment methods Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

## 14. Transport information

#### DOT

DOT UN/ID no Proper Shipping Name: Hazard class Packing group: Special Provisions Marine Pollutant Description: Emergency Response Guide Number	UN1645 Mercury sulfates 6.1 II IB8, IP2, IP4, T3, TP33 Severe Marine Pollutant UN1645, Mercury sulfates, 6.1, II 151
TDG UN-No: Proper Shipping Name: Hazard class Packing Group: Description:	UN1645 Mercury sulfate 6.1 II UN1645, Mercury sulfate, 6.1, II
MEX UN-No Proper Shipping Name Hazard class Packing Group Description	UN1645 Mercury sulphate 6.1 II UN1645, Mercury sulphate, 6.1, II
ICAO (air) UN-No: Proper Shipping Name: Hazard class Packing Group: Description:	UN1645 Mercury sulphate 6.1 II UN1645, Mercury sulphate, 6.1, II
IATA UN number Proper Shipping Name: Transport hazard class(es) Packing group Description:	UN1645 Mercury sulphate 6.1 II UN1645, Mercury sulphate, 6.1, II
IMDG UN number Proper shipping name Transport hazard class(es) Packing group EmS-No	UN1645 Mercury sulphate 6.1 II F-A, S-A

Marine pollutant Description	NP1 UN1645, Mercury sulphate, 6.1, II
<u>RID</u> UN number Proper Shipping Name: Transport hazard class(es) Packing group Classification code Description: Labels	UN1645 Mercury sulphate 6.1 II T5 UN1645, Mercury sulphate, 6.1, II 6.1
ADR UN number Proper Shipping Name: Transport hazard class(es) Packing group Classification code Tunnel restriction code Description: Labels	1645 Mercury sulphate 6.1 II T5 (D/E) 1645, Mercury sulphate, 6.1, II, (D/E) 6.1
ADN UN/ID No Proper shipping name Transport hazard class(es) Packing Group Classification code Special Provisions Description Hazard label(s) Limited quantity (LQ) Equipment Requirements	UN1645 Mercury sulphate 6.1 II T5 802 UN1645, Mercury sulphate, 6.1, II 6.1 500 g PP, EP

#### 15. Regulatory information

#### International Inventories

TSCA

Complies

\*Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements

DSL/NDSL EINECS/ELINCS	Complies Complies
ENCS IECSC	This product complies with encs: This product complies with china:
KECL	Complies
PICCS	Complies
AICS	All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
 ENCS - Japan Existing and New Chemical Substances
 IECSC - China Inventory of Existing Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances
 PICCS - Philippines Inventory of Chemicals and Chemical Substances

#### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Mercuric Sulfate	10 lb final RQ	-
7783-35-9	4.54 kg final RQ	

#### US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

#### 16. Other information

HMIS Health hazards Flammability 0 Physical hazards Personal protect	emical properties - 4 * s 0	afety data sheet_	
Legend Section	8: EXPOSURE CONTROLS/PERSONAL PR TWA (time-weighted average)	ROTECTION STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
Key literature references and sources for data used to compile the SDS Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal			

Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

Revision date	13-February-2020
Revision Note	No information available.
Disclaimer	

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet