

# SAFETY DATA SHEET

Creation Date 18-Sep-2003

Revision Date 24-Dec-2021

Revision Number 5

## 1. Identification

#### **Product Name**

**Recommended Use** 

### (S)-(+)-Mandelic acid

Cat No. :

### AC125300000; AC125300050; AC125300250; AC125301000

CAS No Synonyms

(S)-(+)-alpha-Hydroxyphenylacetic acid
 Laboratory chemicals.
 Food, drug, pesticide or biocidal product use.

17199-29-0

Uses advised against

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

<u>Company</u>

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

**Emergency Telephone Number** 

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

## 2. Hazard(s) identification

#### **Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious Eye Damage/Eye Irritation

Category 1

#### Label Elements

Signal Word Danger

Hazard Statements Causes serious eye damage



## Precautionary Statements

Prevention

Wear protective gloves/protective clothing/eye protection/face protection

Eyes

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

Hazards not otherwise classified (HNOC)

None identified

## 3. Composition/Information on Ingredients

Component		CAS No	Weight %			
Benzeneacetic acid, .alphahyd	roxy-, (S)-	17199-29-0	> 95			
	4.	First-aid measures				
General Advice	If symptoms persist, call a physician.					
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.					
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.					
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.					
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.					
Most important symptoms and effects	Causes severe eye damage.					
Notes to Physician	Treat symptomatically					

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam.
Unsuitable Extinguishing Media	No information available
Flash Point	> 190 °C / > 374 °F
Method -	No information available
Autoignition Temperature Explosion Limits	No information available
Upper Lower	No data available No data available

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

#### Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

#### **Hazardous Combustion Products**

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<u>NFPA</u> Health 3	Flammability 1	Instability 1	Physical hazards N/A		
	6. Accidental re	lease measures			
Personal Precautions		on. Use personal protective equip	oment as required. Avoid dust		
<b>Environmental Precautions</b>	Should not be released int	o the environment.			
Methods for Containment and Cle Up	an Keep in suitable, closed co containers for disposal.	ontainers for disposal. Sweep up	and shovel into suitable		
	7. Handling	and storage			
Handling	Wear personal protective of get in eyes, on skin, or on	equipment/face protection. Ensur clothing. Avoid ingestion and inh	re adequate ventilation. Do not alation. Avoid dust formation.		
Storage.		ed in a dry and well-ventilated pl trong oxidizing agents. Strong ba	ace. Protect from direct sunlight. ases. Strong reducing agents.		
8. [	Exposure controls	/ personal protectio	n		
Exposure Guidelines		tain any hazardous materials with gion specific regulatory bodies.	h occupational exposure		
Engineering Measures		on, especially in confined areas. I ose to the workstation location.	Ensure that eyewash stations		
Personal Protective Equipment					
Eye/face Protection		re eyeglasses or chemical safety ection regulations in 29 CFR 191			
Skin and body protection	Wear appropriate protectiv	e gloves and clothing to prevent	skin exposure.		
<b>Respiratory Protection</b>	No protective equipment is	needed under normal use cond	itions.		
Hygiene Measures	Handle in accordance with	good industrial hygiene and safe	ety practice.		
	9. Physical and ch	emical properties			
Physical State		Solid			

	9. Physical and chemical properties
Physical State	Solid
Appearance	White
Odor	aromatic
Odor Threshold	No information available

pH Melting Point/Range
5 5
Boiling Point/Range
Flash Point
Evaporation Rate
Flammability (solid,gas)
Flammability or explosive limits
Upper
Lower
Vapor Pressure
Vapor Density
Specific Gravity
Solubility
Partition coefficient; n-octanol/water
Autoignition Temperature
Decomposition Temperature
Viscosity
Molecular Formula
Molecular Weight

No information available 130 - 135 °C / 266 - 275 °F No information available > 190 °C / > 374 °F Not applicable No information available No data available No data available

No data available <0.1 mbar @ 20 °C Not applicable No information available Soluble in water No data available No information available No information available Not applicable C8 H8 O3 152.15

## 10. Stability and reactivity

Reactive Hazard	None known, based on information available					
Stability	Light sensitive.					
Conditions to Avoid	Exposure to light. Incompatible products.					
Incompatible Materials	rong oxidizing agents, Strong bases, Strong reducing agents					
Hazardous Decomposition Product	<b>s</b> Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> )					
Hazardous Polymerization	No information available.					
Hazardous Reactions	No information available.					
	11. Toxicological information					
Acute Toxicity						
Product Information						
Component Information	No acute toxicity information is available for this product					
Component Information Toxicologically Synergistic Products	No acute toxicity information is available for this product No information available					
Toxicologically Synergistic Products						
Toxicologically Synergistic Products	No information available					

Sensitization No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico	
Benzeneacetic acid,	17199-29-0	Not listed	Not listed	Not listed	Not listed	Not listed	
.alphahydroxy-, (S)-							
Mutagenic Effects		No information available					
Reproductive Effect	S	No information available.					
<b>Developmental Effect</b>	cts	No information available.					

Teratogenicity	No information available.
STOT - single exposure STOT - repeated exposure	None known None known
Aspiration hazard	No information available
Symptoms / effects,both acute and delayed	No information available
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated.
	12. Ecological information
Ecotoxicity Do not empty into drains.	
Persistence and Degradability	Soluble in water Persistence is unlikely based on information available.
<b>Bioaccumulation/ Accumulation</b>	No information available.

### Mobility Will likely be mobile in the environment due to its water solubility.

	13. Disposal considerations
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information						
DOT	Not regulated					
DOT _TDG IATA_	Not regulated					
IATA	Not regulated					
IMDG/IMO	Not regulated					
	15. Regulatory information					

#### United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Benzeneacetic acid, .alphahydroxy-, (S)-	17199-29-0	Х	ACTIVE	-

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

#### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Benzeneacetic acid, .alphahydroxy-, (S)-	17199-29-0	Х	-	241-240-8	-	Х	Х	Х	Х	-

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations				
SARA 313	Not applicable			
SARA 311/312 Hazard Categories	See section 2 for more information			
CWA (Clean Water Act)	Not applicable			
Clean Air Act	Not applicable			
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable			
CERCLA	Not applicable			
California Proposition 65	This product does not contain any Proposition 65 chemicals.			
U.S. State Right-to-Know Regulations	Not applicable			
<ul> <li>U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant</li> <li>U.S. Department of Homeland</li> </ul>	N N N This product does not contain any DHS chemicals.			
Security				
Other International Regulations				
Mexico - Grade	No information available			
Authorization/Bostvictions cocording to EUREACH				

Authorisation/Restrictions according to EU REACH

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Benzeneacetic acid, .alphahydroxy-, (S)-	17199-29-0	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Benzeneacetic acid, .alphahydroxy-, (S)-	17199-29-0	Not applicable	Not applicable	Not applicable	Not applicable

## 16. Other information

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Creation Date	18-Sep-2003
Revision Date	24-Dec-2021
Print Date	24-Dec-2021
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

#### 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

