

# SAFETY DATA SHEET

Revision Date 24-Dec-2021

**Revision Number** 4

### 1. Identification

#### Product Name D-(-)-Aspartic acid

# Cat No. :AC204260000; AC204260050; AC204260250; AC204261000CAS No<br/>Synonyms1783-96-6<br/>D-2-Aminobutanedioic acid; D-Aminosuccinic acidRecommended Use<br/>Uses advised againstLaboratory chemicals.<br/>Food, drug, pesticide or biocidal product use.

#### 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**

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements
None required

Hazards not otherwise classified (HNOC) None identified

3. Composition/Information on Ingredients

Component		CAS No	Weight %				
D-Aspartic acid		1783-96-6	> 99				
	4 First-a	id measures					
	1.111500						
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 soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.						
Inhalation	Remove from exposure, lie down. Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.						
Ingestion	Clean mouth with wate	r. Get medical attention.					
Most important symptoms and effects	No information available.						
Notes to Physician	Treat symptomatically						
	5. Fire-figh	ting measures					
Suitable Extinguishing Media Water spray. Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Chemical foam.							
Unsuitable Extinguishing Media	No information availabl	e					
Flash Point	No information availabl	e					
Method -	No information available	e					
Autoignition Temperature Explosion Limits	No information available						
	No data available						
Upper	No data available						
Lower		et No information available No information available					

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

#### Hazardous Combustion Products

Nitrogen oxides (NOx). 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.

NFPA Health 0	<b>Flammability</b> 0	<b>Instability</b> 0	Physical hazards N/A
	6. Accidental rel	ease measures	
Personal Precautions Environmental Precautions	Ensure adequate ventilation See Section 12 for addition	n. Use personal protective equipn al Ecological Information.	nent as required.

Methods for Containment and Clean Avoid dust formation. Sweep up and shovel into suitable containers for disposal. Up

	7. Handling and storage		
Handling	Avoid contact with skin and eyes. Do not breathe dust.		
Storage.	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incompatible Materials. Strong oxidizing agents.		
8. E	xposure controls / personal protection		
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.		
Engineering Measures	None under normal use conditions.		
Personal Protective Equipment			
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.		
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.		
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions.		
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.		

9. Physical a	nd chemical properties
Physical State	Powder Solid
Appearance	Off-white
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	> 300 °C / 572 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C4 H7 N O4
Molecular Weight	133.1

# 10. Stability and reactivity

**Reactive Hazard** 

None known, based on information available

Stability

Stable under normal conditions.

Conditions to Avoid	Incompatible prod	ucts.				
Incompatible Materials	Strong oxidizing a	Strong oxidizing agents				
Hazardous Decomposition Produ	<b>cts</b> Nitrogen oxides (N	IOx), Carbon mon	oxide (CO), Carbo	n dioxide (CO2)		
Hazardous Polymerization	Hazardous polyme	Hazardous polymerization does not occur.				
Hazardous Reactions	None under norma	al processing.				
	11. Toxico	ological info	ormation			
Acute Toxicity						
Product Information	No acute toxicity in	nformation is avail	able for this produc	ct		
Component Information Toxicologically Synergistic	No information ava	ailable				
Products Delayed and immediate effects as	well as chronic effe	ects from short ar	nd long-term expo	osure_		
Irritation	No information av	ailable	-			
Sensitization	No information av	ailable				
Carcinogenicity	The table below in	dicates whether e	ach agency has lis	ted any ingredient	as a carcinogen.	
Component CAS No	IARC	NTP	ACGIH	OSHA	Mexico	
D-Aspartic acid 1783-96-6	Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects	No information av	ailable	•	•	·	
Reproductive Effects	No information ava	ailable.				
Developmental Effects	No information ava	ailable.				
Teratogenicity	No information ava	ailable.				
STOT - single exposure STOT - repeated exposure	None known None known					
Aspiration hazard	No information av	ailable				
Symptoms / effects,both acute ar delayed	nd No information ava	ailable				
Endocrine Disruptor Information	No information ava	ailable				
Other Adverse Effects	The toxicological p	properties have no	t been fully investi	gated.		
	12. Ecol	ogical infor	mation			
Ecotoxicity Do not empty into drains.						
Persistence and Degradability	Soluble in water P	ersistence is unlik	ely based on inforr	mation available.		
Bioaccumulation/ Accumulation	No information ava	ailable.				
Mobility	Will likely be mobi	le in the environm	ent due to its wate	r solubility.		
	13 Dispo	sal conside	erations			
Waste Disposal Methods	•			discarded chemica		

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
D-Aspartic acid	1783-96-6	-	-	-

#### 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
D-Aspartic acid	1783-96-6	-	-	217-234-6	-	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
<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N

# U.S. Department of Homeland This product does not contain any DHS chemicals. Security

#### Other International Regulations

Mexico - Grade

No information available

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)
D-Aspartic acid	1783-96-6	Not applicable	Not applicable	Not applicable	Not applicable
Common and	CAC No.			Dettendem	Basel Convertion
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)
D-Aspartic acid	1783-96-6	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Revision Date Print Date Revision Summary	24-Dec-2021 24-Dec-2021 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

## End of SDS