

# SAFETY DATA SHEET

Creation Date 15-Aug-2011

Revision Date 26-Mar-2024

**Revision Number** 3

1. Identification

Product Name

## L-Aspartic acid 4-benzyl ester

Cat No. : L08956

CAS No Synonyms

Recommended Use Uses advised against

beta-Benzyl L-aspartate; H-Asp(OBzl)-OH Laboratory chemicals. Food, drug, pesticide or biocidal product use.

2177-63-1

Details of the supplier of the safety data sheet

### <u>Company</u>

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

### **Emergency Telephone Number**

For information **US** call: 001-800-227-6701 / **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

<u>Classification</u> 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 %	
Benzyl hydrogen .betaL-aspartate		2177-63-1	>95	
	4.	First-aid measures		
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. Get medical attention immediately if symptoms occur.			
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.			
Ingestion	Do NOT induce vomiting. Get medical attention.			
Most important symptoms and effects	No information available.			
Notes to Physician	Treat symptomatically			

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	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**

Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NOx).

### **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 1	Flammability 1	Instability 1	Physical hazards N/A			
	6. Accidental re	lease measures				
Personal Precautions	Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.					
Environmental Precautions	Should not be released internation.	o the environment. See Section	12 for additional Ecological			

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

Up	
	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.
Storage.	Keep container tightly closed. Store under an inert atmosphere. Keep refrigerated. Incompatible Materials. Strong oxidizing agents. Strong acids.
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 Personal Protective Equipment	None under normal use conditions.
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.
Recommended Filter type:	Particle filter.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties					
Physical State	Solid				
Appearance	White				
Odor	Odorless				
Odor Threshold	No information available				
рН	No information available				
Melting Point/Range	207 - 208 °C / 404.6 - 406.4 °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	C11 H13 N O4				
Molecular Weight	223.23				

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available					
Stability	Stable under recommended storage conditions. Air sensitive.					
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation. Exposure to air.					
Incompatible Materials	Strong oxidizing agents, Strong acids					
Hazardous Decomposition Product	tion Products Thermal decomposition can lead to release of irritating gases and vapors, Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Nitrogen oxides (NOx)					
Hazardous Polymerization	Hazardous polymerization does not occur.					
Hazardous Reactions	None under normal processing.					
	11. Toxicological information					
Acute Toxicity						
Product Information	No acute toxicity information is available for this product					
Component Information Toxicologically Synergistic	No information available					
Products Delayed and immediate effects as well as chronic effects from short and long-term exposure						
Irritation	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					

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico			
Benzyl hydrogen	2177-63-1	Not listed	Not listed	Not listed	Not listed	Not listed			
.betaL-aspartate Mutagenic Effects		No information available							
Reproductive Effec	ts	No information available.							
Developmental Effe	cts	No information ava	ailable.						
Teratogenicity		No information ava	ailable.						
STOT - single expo	sure	None known							
STOT - repeated ex		None known							
Aspiration hazard		No information available							
Symptoms / effects delayed	/ effects,both acute and No information available								
uciayeu									
Endocrine Disrupto	r Information	No information available							
Other Adverse Effe	cts	The toxicological properties have not been fully investigated.							
		0.001		,					
		12. Ecol	ogical infor	mation					
Ecotoxicity									
Do not empty into dra	ains								

Do not empty into drains.

Persistence and Degradability

No information available

Bioaccumulation/ Accumulation	No information available.					
Mobility	No information available.					
	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	Not regulated					
<u>IATA</u>	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
Benzyl hydrogen	2177-63-1	-	-	-
.betaL-aspartate				

### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

# TSCA - Per 40 CFR 751, Regulation of Certain Chemical Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

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
Benzyl hydrogen	2177-63-1	-	-	218-541-8	-	-	Х	-	-	-
.betaL-aspartate										

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

### U.S. 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)	Not applicable
Clean Air Act	Not applicable

**OSHA** - Occupational Safety and Not applicable Health Administration

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant U.S. Department of Homeland Security	N N N This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available

### Authorisation/Restrictions according to EU REACH

Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	· · · · · · · · · · · ·	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Benzyl hydrogen .betaL-aspartate	2177-63-1	-	-	-

### 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)
Benzyl hydrogen .betaL-aspartate	2177-63-1	Not applicable	Not applicable	Not applicable	Not applicable

### Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

### Other International Regulations

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)
Benzyl hydrogen .betaL-aspartate	2177-63-1	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information		
Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com		
Creation Date Revision Date Print Date Revision Summary	15-Aug-2011 26-Mar-2024 26-Mar-2024 New emergency telephone response service provider.		

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**