

# SAFETY DATA SHEET

Revision Date 25-Dec-2021

**Revision Number** 4

	1. Identification					
Product Name	L-Asparagine					
Cat No. :	AC371600000; AC371600025; AC371600250; AC371601000; AC371605000					
CAS No Synonyms	70-47-3 \$1-Aminosuccinamic acid					
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use.					
Details of the supplier of the	safety data sheet					
Company Fisher Scientific Company	Acros Organics					

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

Component	CAS No	Weight %				
L-Asparagine	70-47-3	99				
	4. First-aid measures					
Eye Contact	Rinse immediately with plenty of water, also u medical attention.	nder the eyelids, for at least 15 minutes. Get				
Skin Contact	Wash off immediately with soap and plenty of clothes and shoes. Get medical attention.	water while removing all contaminated				
Inhalation	Remove from exposure, lie down. Remove to	fresh air.				
ngestion	Clean mouth with water. Get medical attention	٦.				
Most important symptoms and effects	nd No information available.					
Notes to Physician						
	5. Fire-fighting measures	6				
Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chen	nical. Chemical foam.				
Unsuitable Extinguishing Media	No information available					
Flash Point Method -	No information available No information available					
Autoignition Temperature Explosion Limits	Not applicable					
Upper	No data available					
Lower	No data available					
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No information available No information available					
Specific Hazards Arising from the C	nemical					

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	Flammability	Instability	Physical hazards
0	1	1	N/A
	6. Accidental re	lease measures	
Personal Precautions	Ensure adequate ventilation	n. Use personal protective equ	ipment as required.
Environmental Precautions	See Section 12 for addition	nal Ecological Information.	

Methods for Containment and Clean Avoid dust formation. Sweep up and shovel into suitable containers for disposal. Do not let this chemical enter the environment. 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	Exposure 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 and chemical properties						
Physical State	Powder Solid					
Appearance	White					
Odor	No information available					
Odor Threshold	No information available					
рН	4.5-5 2% aq.sol. (20°C)					
Melting Point/Range	No data available					
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	Not applicable					
Decomposition Temperature	No information available					
Viscosity	Not applicable					
Molecular Formula	C4 H8 N2 O3					
Molecular Weight	132.12					

## 10. Stability and reactivity

**Reactive Hazard** 

None known, based on information available

Stability

Stable under normal conditions. Hygroscopic.

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Conditions to Avoid	Conditions to Avoid Avoid dust formation. Incompatible products. Exposure to moist air or water.							
Incompatible Materia	als	Strong oxidizing ag	jents					
Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)								
Hazardous Polymeriz	zation	Hazardous polymerization does not occur.						
Hazardous Reactions	S	None under norma	l processing.					
		11. Toxico	logical info	rmation				
Acute Toxicity			3					
Product Information		No acute toxicity in	formation is availa	ble for this produc	t			
Component Informat Toxicologically Syne Products		No information ava	ilable					
Delayed and immedia	ate effects as w	ell as chronic effe	cts from short an	d long-term expo	sure			
Irritation		No information ava	ilable					
Sensitization		No information ava	ilable					
Carcinogenicity		The table below inc	dicates whether ea	ach agency has list	ed any ingredient	as a carcinogen.		
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico		
L-Asparagine Mutagenic Effects	70-47-3	Not listed No information ava	Not listed	Not listed	Not listed	Not listed		
Mulayenic Enecis		No information ava	liable					
Reproductive Effects	6	No information ava	ilable.					
Developmental Effec	ts	No information ava	ilable.					
Teratogenicity		No information ava	ilable.					
STOT - single exposition STOT - repeated exp		None known None known						
Aspiration hazard		No information ava	ilable					
Symptoms / effects, delayed	both acute and	No information ava	ilable					
Endocrine Disruptor	Information	No information ava	ilable					
Other Adverse Effect	ts	The toxicological p	roperties have not	been fully investig	ated.			
		12. Ecolo	ogical infor	mation				
Ecotoxicity Do not empty into drai	ns							
Persistence and Deg	Persistence and Degradability Soluble in water Persistence is unlikely based on information available.							
Bioaccumulation/ Ac	cumulation	No information ava	ilable.					
Mobility		Will likely be mobile	e in the environme	nt due to its water	solubility.			
		12 Dicno	sal conside	rations				

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
L-Asparagine	70-47-3	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
L-Asparagine	70-47-3	Х	-	200-735-9	Х	Х	Х	Х	Х	KE-01953

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)
L-Asparagine	70-47-3	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities	Seveso III Directive (2012/18/EC) - Qualifying Quantities	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
		for Major Accident Notification	for Safety Report Requirements		
L-Asparagine	70-47-3	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	25-Dec-2021 25-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