

SAFETY DATA SHEET

Creation Date 08-Apr-2010

Revision Date 18-Jan-2022

Revision Number 7

1. Identification

Product Name

L-Methionine sulfoximine

Cat No. :

AC227200000; AC227200010; AC227200050; AC227202500

CAS No Synonyms

Recommended Use

Uses advised against

(2S)-2-Amino-4-(S-methylsulfonimidosyl)butanoic acid Laboratory chemicals. Food, drug, pesticide or biocidal product use.

15985-39-4

Details of the supplier of the safety data sheet

Company

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)

Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 2 Category 2 Category 3

Label Elements

Signal Word Warning

Hazard Statements Causes skin irritation Causes serious eye irritation May cause respiratory irritation



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

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

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Storage

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

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Butanoic acid, 2-amino-4-(S-methylsulfonimidoyl)-,	15985-39-4	<=100
(2S)-		

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	None reasonably foreseeable.			

effects Notes to Physician	Treat symptomatically					
	5. Fire-fightin	ig measures				
Suitable Extinguishing Media	Water spray, carbon dioxid	e (CO2), dry chemical, alcoho	ol-resistant foam.			
Unsuitable Extinguishing Media	No information available					
Flash Point Method -	No information available No information available					
Autoignition Temperature Explosion Limits Upper Lower Sensitivity to Mechanical Impact Sensitivity to Static Discharge Specific Hazards Arising from the C	No information available					
Keep product and empty container awa Hazardous Combustion Products Carbon monoxide (CO). Carbon dioxid Protective Equipment and Precaution As in any fire, wear self-contained breat protective gear.	ay from heat and sources of e (CO ₂). Nitrogen oxides (No ons for Firefighters	Ox). Sulfur oxides.	ved or equivalent) and full			
NFPA Health 2	Flammability 1	Instability 0	Physical hazards N/A			
	6. Accidental rel	ease measures				
Personal Precautions	formation.		uipment as required. Avoid dust			
Environmental Precautions	Should not be released into					
Methods for Containment and Clean Up	Sweep up and shovel into s containers for disposal.	suitable containers for disposa	al. Keep in suitable, closed			
	7. Handling a	and storage				
Handling			sure adequate ventilation. Do not nhalation. Avoid dust formation.			
Storage.		ed in a dry and well-ventilated ble Materials. Strong oxidizin	place. To maintain product quality: g agents.			
	•	personal protecti				
Exposure Guidelines		ain any hazardous materials v ion specific regulatory bodies				
Engineering Measures		ns and safety showers are clo n, especially in confined areas	ose to the workstation location. S.			

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.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	White
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	210 °C / 410 °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	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C5 H12 N2 O3 S
Molecular Weight	180.22

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under recommended storage conditions.
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Product	s Carbon monoxide (CO), Carbon dioxide (CO ₂), Nitrogen oxides (NOx), Sulfur oxides
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information Component Information No acute toxicity information is available for this product

Toxicologically Syne Products	-	No information ava				
Delayed and immedia	ate effects as w	ell as chronic effec	cts from short ar	nd long-term expo	sure_	
rritation		Irritating to eyes, re	espiratory system	and skin		
Sensitization		No information ava	ilable			
Carcinogenicity		The table below inc	dicates whether e	ach agency has lis	ted any ingredient	as a carcinogen.
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Butanoic acid, 2-amino-4-(S-methylsu Ifonimidoyl)-, (2S)-	15985-39-4	Not listed	Not listed	Not listed	Not listed	Not listed
Autagenic Effects		No information ava	ilable		1	
Reproductive Effects	i	No information ava	ilable.			
Developmental Effect	ts	No information ava	ilable.			
Feratogenicity		No information ava	ilable.			
STOT - single exposu STOT - repeated expo		Respiratory system None known	1			
Aspiration hazard		No information ava	ilable			
Symptoms / effects,I delayed	both acute and	No information ava	ilable			
Endocrine Disruptor	Information	No information ava	ilable			
Other Adverse Effect	S	The toxicological p	roperties have no	t been fully investig	gated.	
		12. Ecolo	ogical infor	mation		
<u>Ecotoxicity</u> Do not empty into draiı	ns.					
Persistence and Deg	radability	Persistence is unlik	kely			
Bioaccumulation/ Ac	cumulation	No information ava	ilable.			
Mobility		. Will likely be mob	ile in the environn	nent due to its wate	er solubility.	
	Component				log Pow	
Butanoic acid, 2-	amino-4-(S-methy	/Isulfonimidoyl)-, (2S)-			-4.37	
		13. Dispo	sal conside	erations		
Waste Disposal Meth	ods	Chemical waste ge hazardous waste. national hazardous	Chemical waste	generators must als	so consult local, re	gional, and
		14. Tran	sport infor	mation		
DOT TDG IATA		Not regulated Not regulated Not regulated				
IMDG/IMO		Not regulated				

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Butanoic acid, 2-amino-4-(S-methylsulfonimidoyl) -, (2S)-	15985-39-4	-	-	-

Legend:

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

X - Listed '-' - Not Listed

Not applicable

TSCA 12(b) - Notices of Export

<u>International Inventories</u> X = listed, U.S.A. (TSCA), Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), Korea (KECL), China (IECSC), Japan (ENCS), Philippines (PICCS).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Butanoic acid, 2-amino-4-(S-methylsulfonimidoyl) -, (2S)-	15985-39-4	-	-	-	-	-		-	-	-

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
OSHA - 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
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available

Authorisation/Restrictions according to EU REACH

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Butanoic acid, 2-amino-4-(S-methylsulfonimi doyl)-, (2S)-	15985-39-4	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)
Butanoic acid, 2-amino-4-(S-methylsulfonimi doyl)-, (2S)-	15985-39-4	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information			
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com		
Creation Date Revision Date Print Date Revision Summary	08-Apr-2010 18-Jan-2022 18-Jan-2022 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