

# SAFETY DATA SHEET

Creation Date 08-Nov-2010

Revision Date 19-Jan-2018

**Revision Number** 4

1. Identification	
Product Name	(+)-2-Methyl-L-serine
Cat No. :	AC290010000; AC290012500
CAS-No Synonyms	16820-18-1 (S)-(+)-2-Amino-3-hydroxy-2-methylpropionic acid
Recommended Use Uses advised against	Laboratory chemicals. Not for food, drug, pesticide or biocidal product use
Details of the supplier of the safety data sheet	
<u>Company</u> Fisher Scientific 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)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

## Label Elements

## Hazard Statements

## Precautionary Statements

Hazards not otherwise classified (HNOC) None identified

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
(+)-2-Methyl-L-serine	16820-18-1	>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	Obtain medical attention. Wash off immediately with plenty of water for at least 15 minutes.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.
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-fighting measures		
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.	
Unsuitable Extinguishing Media	No information available	
Flash Point Method -	No information available No information available	
Autoignition Temperature Explosion Limits		
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 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	Flammability	Instability	Physical hazards N/A
	<ol> <li>Accidental re</li> </ol>	lease measures	
Personal Precautions Environmental Precautions		quipment. Ensure adequate ve o the environment. See Sectio	ntilation. Avoid dust formation. n 12 for additional ecological
Methods for Containment and C Up	ean Sweep up or vacuum up s suitable, closed containers		container for disposal. Keep in
	7. Handling	and storage	
Handling		equipment. Ensure adequate v ingestion and inhalation. Avoid	entilation. Do not get in eyes, on d dust formation.
Storage	Keep containers tightly clo	sed in a dry, cool and well-ver	tilated place.

8	. 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 Equipmen	<u>t</u>
Eye/face Protection	Tightly fitting safety goggles.
Skin and body protection	Long sleeved clothing.
<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 Appearance	Powder Solid White

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Appearance	White
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	286 - 288 °C / 546.8 - 550.4 °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	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C4 H9 N O3
Molecular Weight	119.12

10. Stability and reactivity	
Reactive Hazard	None known, based on information available
Stability	Moisture sensitive.
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat. Exposure to moist air or water.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)	
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

		TT. TOXICO	logical info	ormation		
Acute Toxicity						
Product Information	-	No acute toxicity int Caution - substance			t	
Component Informa Toxicologically Syn Products		No information avail	ilable			
Delayed and immed	iate effects as w	ell as chronic effec	ts from short an	d long-term expo	sure_	
Irritation		No information avail	ilable			
Sensitization		No information avail	ilable			
Carcinogenicity		The table below inc	licates whether ea	ach agency has list	ed any ingredient a	as a carcinogen.
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
(+)-2-Methyl-L-serine	16820-18-1	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information avail	liadie			
Reproductive Effect	S	No information avai	ilable.			
Developmental Effe	cts	No information available	ilable.			
Teratogenicity		No information avai	ilable.			
STOT - single expos STOT - repeated exp		None known None known				
Aspiration hazard		No information avail	ilable			
Symptoms / effects delayed	,both acute and	No information avail	ilable			
Endocrine Disrupto	r Information	No information avail	ilable			
Other Adverse Effect	cts	The toxicological pr	operties have not	been fully investig	ated.	
12. Ecological information						
Ecotoxicity Do not empty into dra	ains.					
Persistence and De	gradability	Soluble in water Pe	rsistence is unlike	ely based on inform	nation available.	
Bioaccumulation/ A	ccumulation	No information avail	ilable.			
Mobility		Will likely be mobile	e in the environme	nt due to its water	solubility.	
13. Disposal considerations						
Waste Disposal Met	hods	Chemical waste ge hazardous waste. national hazardous	Chemical waste g	enerators must als	o consult local, reg	gional, and
			sport inform	mation		
DOT TDC		Not regulated				
<u>TDG</u> IATA		Not regulated Not regulated				
		i or rogulatou				

IMDG/IMO	Not regulated	
	15. Regulatory information	

All of the components in the product are on the following Inventory lists: X = listed The product is classified and labeled according to EC directives or corresponding national laws The product is classified and labeled in accordance with Directive 1999/45/EC

### International Inventories

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

## U.S. Federal Regulations

TSCA 12(b)	Not applicable	
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 Healt Not applicable	h Administration	
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	
<b>U.S. Department of Homeland Security</b> This product does not contain any DHS chemicals.		
Other International Regulations		
Mexico - Grade	No information available	
	16. Other information	

Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
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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

# **End of SDS**