

# SAFETY DATA SHEET

Creation Date 15-Dec-2011

Revision Date 19-Jan-2018

**Revision Number** 4

# 1. Identification

AC275410000; AC275410010; AC275412500

# (S)-(-)-alpha-Allylglycine

Cat No. :

**Product Name** 

CAS-No Synonyms 16338-48-0 (S)-(-)-2-Amino-4-pentenoic 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

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

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 %	
4-Pentenoic acid, 2-amino-,	4-Pentenoic acid, 2-amino-, (2S)-		>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	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.			
Inhalation	Move 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 effects	None reasonably foreseeable.			
Notes to Physician	Treat symptomatically			

Suitable Extinguishing Media	5. Fire-fighting Use water spray, alcohol-resis		carbon dioxide.
		ant roam, ary onormour of	
Unsuitable Extinguishing Media	No information available		
Flash Point Method -	No information available No information available		
Autoignition Temperature Explosion Limits	Not applicable		
Upper Lower	No data available No data available		
Sensitivity to Mechanical Impac	t No information available		
Sensitivity to Static Discharge	No information available		
Specific Hazards Arising from the C Keep product and empty container aw		ition.	
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 2	Flammability 0	Instability 0	Physical hazards N/A
	6. Accidental relea	ase measures	
Personal Precautions Environmental Precautions	Ensure adequate ventilation. L Should not be released into the		ipment. Avoid dust formation.
Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Keep in suitable, closed containers for disposal.			
7. Handling and storage			
Handling	Wear personal protective equipskin, or on clothing. Avoid inge		entilation. Do not get in eyes, on dust formation.
Storage	Keep in a dry place. Keep con refrigerated.	tainer tightly closed. To ma	intain product quality. Keep
8. Exposure controls / personal protection			
Exposure Guidelines	This product does not contain limitsestablished by the region		
Engineering Measures	Ensure adequate ventilation, e and safety showers are close t		. Ensure that eyewash stations
Personal Protective Equipment			
Eye/face Protection	Wear appropriate protective ey OSHA's eye and face protection EN166.		ty goggles as described by 910.133 or European Standard

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	Powder Solid
Appearance	Off-white
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	253 - 255 °C / 487.4 - 491 °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	Not applicable
Decomposition Temperature	> 220°C
Viscosity	Not applicable
Molecular Formula	C5 H9 N O2
Molecular Weight	115.13

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Stable under normal conditions.	
Conditions to Avoid	Incompatible products.	
Incompatible Materials	Strong oxidizing agents	
Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)		
Hazardous Polymerization	No information available.	
Hazardous Reactions	None under normal processing.	
11. Toxicological information		

# Acute Toxicity

Product Information Component Information Toxicologically Synergistic Products Delayed and immediate effects as v	No acute toxicity information is available for this product No information available vell as chronic effects from short and long-term exposure
Irritation	Irritating to eyes, respiratory system and skin
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
4-Pentenoic acid, 2-amino-, (2S)-	16338-48-0	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects			ailable			
Reproductive Effect	ts	No information available.				
Developmental Effe	cts	No information available.				
Teratogenicity		No information available.				
STOT - single expos STOT - repeated ex		Respiratory system None known				
Aspiration hazard		No information ava	No information available			
Symptoms / effects delayed	s,both acute and	d No information available				
Endocrine Disrupto	r Information	No information available				
Other Adverse Effe	cts	The toxicological properties have not been fully investigated.				
	12. Ecological information					
Ecotoxicity Do not empty into drains.						
Persistence and De	gradability	Soluble in water Persistence is unlikely based on information available.				
Bioaccumulation/ A	ccumulation	No information available.				
Mobility		Will likely be mobile in the environment due to its water solubility.				
		13. Dispo	sal conside	erations		
Waste Disposal Met	thods	Chemical waste generators must determine whether a discarded chemical is classified hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.			gional, and	
			sport infori	mation		
DOT		Not regulated				
TDG IATA						
IMDG/IMO Not regulated						

# All of the components in the product are on the following Inventory lists: X = listed

#### 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

15. Regulatory information

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 Secu</b> This product does not contain any DH			
Other International Regulations			
Mexico - Grade	No information available		
	16. Other information		
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com		

15-Dec-2011

19-Jan-2018

Creation Date Revision Date Print Date Revision Summary

19-Jan-2018 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