

Allicin - MSDS

MATERIAL SAFETY DATA SHEET

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier:

Product name: Allicin
 Product Number: FPO-1
 Brand: Pangoo
 CAS-No.: 68308-36-1

Name of supplier, address and emergency telephone number:

Company : Pangoo Biotech Hebei Co., Ltd.
 Add: Cangzhou, Hebei, China
 Emergency telephone number: +86-317-8585021

Product use: As feed additive for animals

Date of MSDS preparation: 11/21/2018

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: 2-propene-1-sulfinothioic acid, S-2-propen-1-yl ester; Diallyl Thiosulfinate;

Composition:

Name	CAS #	% by Weight
S-Allyl acrylo-1-sulphinothioate	539-86-6	100

SECTION 3 HAZARDS IDENTIFICATION

GHS Signal Word: Warning

GHS Hazard Phrases:

H315: Causes skin irritation.
 H319: Causes serious eye irritation.
 H335: May cause respiratory irritation.

GHS Precaution Phrases:

P261: Avoid breathing {dust/fume/gas/mist/vapors/spray}.
 P264: Wash {hands} thoroughly after handling.
 P280: Wear {protective gloves/protective clothing/eye protection/face protection}.
 P312: Call a POISON CENTER or doctor/physician if you feel unwell.
 P332+313: If skin irritation occurs, get medical advice/attention.

GHS Response Phrases:

P302+352: IF ON SKIN: Wash with plenty of soap and water.
 P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P312: Call a POISON CENTER or doctor/physician if you feel unwell.
 P332+313: If skin irritation occurs, get medical advice/attention.
 P337+313: If eye irritation persists, get medical advice/attention.
 P362+364: Take off contaminated clothing and wash it before reuse.

GHS Storage and Disposal Phrases:

Please refer to Section 7 for Storage and Section 13 for Disposal information.

Adverse Human Health Causes serious eye irritation.**Effects and Symptoms:**

Causes skin irritation.

Material may be irritating to the mucous membranes and upper respiratory tract. May be harmful by inhalation, ingestion, or skin absorption.

May cause respiratory system irritation.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

SECTION 4

FIRST AID MEASURES

Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.
Eye contact:	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.
Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.
Serious Skin Contact:	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.
Ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

SECTION 5

FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
Unsuitable Extinguishing Media:	Use water spray to cool fire-exposed containers. A solid water stream may be inefficient.
Flammable Properties and Hazards:	N/A
Hazards:	N/A
Flash Pt:	N/A
Explosive Limits:	LEL: N/A UEL: N/A
Autoignition Pt:	N/A
Fire Fighting Instructions:	As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

SECTION 6

ACCIDENTAL RELEASE MEASURES

Protective Precautions, Protective Equipment and Emergency Procedures:

Avoid raising and breathing dust, and provide adequate ventilation. As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

Environmental Precautions:

Take steps to avoid release into the environment, if safe to do so.

Methods and Material For Containment and Cleaning Up:

Contain spill and collect, as appropriate.

Transfer to a chemical waste container for disposal in accordance with local regulations.

SECTION 7

HANDLING AND STORAGE

Precautions:

Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid prolonged or repeated exposure.

Storage:

Keep container tightly closed.
Store in accordance with information listed on the product insert.

SECTION 8

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: N/A

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid / Power
Odor:	Special smell of garlic
Taste:	N/A
Molecular Weight:	N/A
Color:	N/A
pH (1% soln/water):	N/A
Boiling Point:	N/A
Melting Point:	N/A
Critical Temperature:	N/A
Specific Gravity:	N/A
Vapor Pressure:	N/A
Vapor Density:	N/A
Volatility:	N/A
Odor Threshold:	N/A
Water/Oil Dist. Coeff.:	N/A
Ionicity (in Water):	N/A
Dispersion Properties:	See solubility in water, methanol.
Solubility:	Soluble in: water; Miscible in: alcohol, benzene; ether;

SECTION 10

STABILITY AND REACTIVITY

Stability:	The product is stable.
Instability Temperature:	N/A
Conditions of Instability:	N/A
Incompatibility with various substances:	Strong oxidizing agents
Hazardous Decomposition or Byproducts:	Carbon dioxide
	Carbon monoxide
	Hydrogen sulfide
Polymerization:	No.

SECTION 11

TOXICOLOGICAL INFORMATION

The toxicological effects of this product have not been thoroughly studied.

Information on Toxicological Effects: Allicin - Toxicity Data: Subcutaneous LD50 (mouse): 120 mg/kg;
Allicin - Investigated as a drug and natural product.

Chronic Toxicological Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.
See actual entry in RTECS for complete information. Allicin RTECS Number: UD1900000

Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
S-Allyl acrylo-1-sulphinothioate	n.a.	n.a.	n.a.	n.a.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity: Avoid release into the environment.
Runoff from fire control or dilution water may cause pollution.

BOD5 and COD: N/A

Persistence and degradability: N/A

Toxicity of the Products of Biodegradation: N/A

Special Remarks on the Products of Biodegradation: N/A

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose in accordance with local, state, and federal regulations.

SECTION 14 TRANSPORT INFORMATION

DOT (US) Not a DOT controlled material (United States).

IMDG N/A

IATA N/A

SECTION 15 REGULATORY INFORMATION

Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
S-Allyl acrylo-1-sulphinothioate	No	No	No

Hazardous Components (Chemical Name)	Other US EPA or State Lists
S-Allyl acrylo-1-sulphinothioate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No

Protective Equipment:
This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)

SECTION 16 OTHER INFORMATION

"IMO" : not dangerous for sea transport

Disclaimer

Additional references can be taken from the label or the product description. The information given here is correct to the best of our knowledge at the time of writing this sheet. No responsibility can be taken for improper use or handling of the product.