

Safety Data Sheet

1. Identification

Product Code: 7500 **Formula ID:** 7500

Product Name: **BIO-IMPACT GARLIC 12X**

Recommended Use: Flavoring component for further processing

Supplied by: FMF Specialty Agri Products
 8805 Tamiami Trail N. Ste 230
 Naples, FL 34108

24 Hour Emergency Contact: Infotrac
 US / Canada: 1-800-535-5053

Safety Data Sheet Coordinator: JohnD@fmfagri.com

2. Hazards Identification

GHS Classification

No GHS Classifications were found

Symbol(s) of Product

No GHS Symbols Exist

Signal Word

No Signal Word has been assigned

3. Composition/Information on Ingredients

<u>Chemical Name</u>	<u>CAS-No.</u>	<u>GHS Statements</u>
Natural Garlic	539-86-6	No Information
Allyl Disulfide	2179-57-9	No Information
Diallyl Trisulfide	2050-87-5	No Information

The text for GHS Hazard Statements shown above (if any) is given in the "Other information" Section.

4. First-aid Measures



FIRST AID - INHALATION: Give oxygen or artificial respiration if needed. Remove person to fresh air. If signs/symptoms continue, get medical attention.

FIRST AID - SKIN CONTACT: In case of contact, immediately flush skin with plenty of water while removing contaminated clothing and shoes. If rash or irritation develops, consult a physician.

FIRST AID - EYE CONTACT: If material gets into eyes, flush with water immediately for 15 minutes. Consult a physician.

FIRST AID - INGESTION: If ingested, consult a physician.

5. Fire-fighting Measures

UNUSUAL FIRE AND EXPLOSION HAZARDS: Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges.

SPECIAL FIREFIGHTING PROCEDURES: Use a self-contained breathing apparatus with full facepiece operated in pressure-demand or other positive pressure mode.

Extinguishing Media: Carbon Dioxide, Dry Chemical, Water Fog

6. Accidental Release Measures

ENVIRONMENTAL PRECAUTIONS: Contain any spills immediately and dike area to prevent spreading. Package material and dispose of as hazardous waste.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Vacuum or sweep up material and place in a disposal container. Take care to prevent airborne dust and scattering. Only trained personnel wearing protective equipment should handle spill cleanup. Avoid personal contact.

7. Handling and Storage



HANDLING: Avoid breathing dust. To reduce potential for static discharge, bond and ground containers when transferring material. Practice good caution and personal cleanliness to avoid skin and eye contact. Do not eat, drink, or smoke while handling this product. Wash hands after handling and before eating.

STORAGE: Keep container tightly closed when not in use.

8. Exposure Controls/Personal Protection

Ingredients with Occupational Exposure Limits

<u>Chemical Name</u>	<u>ACGIH TLV-TWA</u>	<u>ACGIH-TLV STEL</u>	<u>OSHA PEL-TWA</u>	<u>OSHA PEL-CEILING</u>
----------------------	----------------------	-----------------------	---------------------	-------------------------

No hazardous items exist

Further Advice: MEL = Maximum Exposure Limit OES = Occupational Exposure Standard SUP = Supplier's Recommendation
Sk = Skin Sensitizer N.E. = Not Established

Personal Protection



RESPIRATORY PROTECTION: Atmospheric levels should be maintained below exposure limits using ventilation. Use NIOSH approved respirator where ventilation is insufficient.



SKIN PROTECTION: Chemical-resistant gloves and safety glasses and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing.



EYE PROTECTION: Use goggles or safety glasses.



OTHER PROTECTIVE EQUIPMENT: Use good hygiene practices. Wash face and hands before eating, drinking, and smoking. Eye wash and safety showers should be readily available.



HYGIENIC PRACTICES: Contaminated clothing should be changed and washed before reuse. Eating, drinking and smoking in immediate work area should be prohibited. Wash hands and face before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Appearance:	Tan, Granular	Physical State:	Granular, Powder
Odor:	Characteristic	Odor Threshold:	Not Measured
Density, g/cm³:	Not Measured	pH:	Not Measured
Freeze Point, °C:	Not Measured	Viscosity:	Not Applicable
Soluble in Water:	Not Measured	Partition Coefficient, n-octanol/ water:	Not Applicable
Decomposition temperature, °C	Not Measured		
Boiling Range, °C:	Not Applicable	Explosive Limits, %:	Not Measured
Combustibility:	Supports Combustion	Flash Point, °C:	Not Measured
Evaporation Rate:	Not Applicable	Auto-Ignition Temperature, °C	Not Measured
Vapor Density:	Not Measured	Vapor Pressure, mmHg:	Not Applicable

(See "Other information" Section for abbreviation legend)

10. Stability and Reactivity

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Moisture, exposure to light and air.

INCOMPATIBILITY: None known

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may release CO & CO₂.

11. Toxicological Information



Practical Experiences

EFFECT OF OVEREXPOSURE - INHALATION: Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes).

EFFECT OF OVEREXPOSURE - SKIN CONTACT: Direct skin contact may cause irritation.

EFFECT OF OVEREXPOSURE - EYE CONTACT: Mist and vapors may cause eye irritation. Direct eye contact may cause irritation.

EFFECT OF OVEREXPOSURE - INGESTION: May be harmful if swallowed. May cause nausea, vomiting, and diarrhea.

CARCINOGENICITY: No Information

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

Acute Toxicity Values

The acute effects of this product have not been tested. Data on individual components are tabulated below

<u>CAS-No.</u>	<u>Chemical Name</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Vapor LC50</u>
2179-57-9	Allyl Disulfide	260 mg/kg	3600 mg/kg	
2050-87-5	Diallyl Trisulfide	500 mg/kg		

N.I. = No Information

12. Ecological Information

ECOLOGICAL INFORMATION: This product has no known eco-toxicological effects.

13. Disposal Information



Product

DISPOSAL METHOD: Dispose of material in accordance with applicable federal, state and local regulations.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Vacuum or sweep up material and place in a disposal container. Take care to prevent airborne dust and scattering. Only trained personnel wearing protective equipment should handle spill cleanup. Avoid personal contact.

14. Transport Information

SPECIAL TRANSPORT PRECAUTIONS: No Information

DOT Proper Shipping Name:	No Information	Packing Group:	No Information
DOT Technical Name:	No Information	Hazard SubClass:	No Information
DOT Hazard Class:	No Information	Resp. Guide Page:	No Information
DOT UN/NA Number:	No Information		

15. Regulatory Information

U.S. Federal Regulations:

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

None Known

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

No Sara 313 components exist in this product.

TOXIC SUBSTANCES CONTROL ACT:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA components exist in this product.

U.S. State Regulations:

NEW JERSEY RIGHT-TO-KNOW:

The following hazardous materials are among the components in this product.

No NJ Right-To-Know components exist in this product.

PENNSYLVANIA RIGHT-TO-KNOW

The following hazardous ingredients are present in the product at greater than 3%.

No PA Right-To-Know components exist in this product.

CALIFORNIA PROPOSITION 65 CARCINOGENS

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

No Proposition 65 Carcinogens exist in this product.

CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

