



Please read the entire document. This Material Safety Data Sheet contains important environmental, health and toxicology information for your employees, and anyone who will use, transport, store, dispose of or handle this product. Please make sure this information is given to them. It also contains information to help you meet community right-to-know/emergency response reporting requirements under SARA Title III and many other laws. If you resell this product, this MSDS must be given to the buyer or the information contained herein must be incorporated in your MSDS.

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: CHAPERONE™ Protein Enhancer
EPA REGISTRATION NUMBER(S): NA
SYNONYM(S): TM-46901

COMPANY

Arysta LifeScience North America Corporation
 15401 Weston Parkway, Suite 150
 Cary, NC 27513

EMERGENCY TELEPHONE NUMBERS

HEALTH EMERGENCY: 1-866-303-6952, or 1-651-632-8946	SPILL EMERGENCY: 1-800-424-9300, or 1-703-527-3887
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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Active Ingredient(s)/ Hazardous Inert Ingredient(s)	CAS #	Exposure Limits*	% Weight	% Volume
Sodium para-nitrophenolate	824-78-2	TWA^a OSHA PEL ^b : NA	0.003	NDA
Sodium ortho-nitrophenolate	824-39-5	ACGIH TLV ^c : NA NIOSH REL ^d : NA	0.002	NDA
Sodium 5-nitroguaiacolate	6723385-6		0.001	NDA

Only the identities of the active ingredient(s) and any hazardous inert ingredients are listed. Specific information on all of this product's ingredients can be obtained by the treating medical professional or spill emergency responder for the management of exposures, spills, or safety assessments.

*Source: *Guide to Occupational Exposure Values 2003*, published by ACGIH

^a**TWA**: Time-weighted average exposure concentration for a conventional 8-hour (TLV, PEL) or up to a 10-hour (REL) workday and a 40-hour workweek.

^b**OSHA PEL**: Occupational Safety and Health Administration Permissible Exposure Limits.

^c**ACGIH TLV**: American Conference of Governmental Industrial Hygienists, Inc., Threshold Limit Values.

^d**NIOSH REL**: National Institute for Occupational Safety and Health Recommended Exposure Limits.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING: - KEEP OUT OF REACH OF CHILDREN

Acute Health Hazards

Eye: Material may cause slight irritation.

Skin: Non-irritant. May stain skin turning it yellow.

Ingestion: NDA

Inhalation: NDA

Chronic Health Hazards (Including Cancer): NDA

Reproductive and Developmental Toxicity: NDA

SECTION 4: FIRST AID MEASURES

Eyes: Immediately flush with clean water. Call medical attention if irritation persists.

Skin: Wash with soap and water.

Ingestion: Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not give anything by mouth to an unconscious person.

Inhalation: Not likely to occur.

SECTION 5: FIRE FIGHTING MEASURES

Flammable Limits in Air (% by volume):		
	Upper:	NA, not flammable
	Lower:	NA, not flammable
Flash Point:		NA, not flammable
	Method Used:	NA
Autoignition Temperature:		NA, not flammable
LEL/UEL:		NA
NFPA Hazard Classification:		
	Health:	0
	Flammability:	0
	Reactivity:	0
	Other:	0
Extinguishing Media:		NA, not flammable
Special Fire Fighting Procedures:		NA, not flammable
Hazardous Combustion Products:		NA, not flammable

SECTION 6: ACCIDENTAL RELEASE MEASURES

EMERGENCY PHONE NUMBERS

Exposure Calls (PROSAR): 1-866-303-6952 or 1-651-632-8946 (International)

Spill Calls (CHEMTREC): 1-800-424-9300 or 1-703-527-3887

Material should be contained and prevented from contaminating soil, sewage and drainage system and bodies of water.

SECTION 7: HANDLING AND STORAGE

Store in a cool place out of direct sunlight. Avoid freezing and very high temperatures. Do not contaminate water, food or animal feed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection: Wear eye protection.

Skin Protection: Wear long-sleeved shirt, long pants, gloves, shoes and socks.

Respiratory/Ventilation Requirements: Provide sufficient local ventilation.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brownish
Odor:	Musty
Physical State:	Liquid solution
pH:	NDA
Boiling Point:	NDA
Melting Point:	NA
Freezing Point	NDA
Vapor Pressure:	17.53 mmHg
Vapor Density:	1.0
Bulk Density:	NDA
Specific Gravity:	1.0
Evaporation Rate:	NDA
Solubility in Water:	NA (it is a water solution)
Percent Solids by Weight:	NA
Percent Volatile:	NDA
Volatile Organic Compounds:	NDA
Molecular Weight:	NDA
Viscosity:	NDA

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability:	Stable
Hazardous Polymerization:	Will not occur
Flash Point:	NA, not flammable
Flammable Point:	NA, not flammable
Auto Ignition:	NA, not flammable
Incompatibility With Other Materials:	Strongly acidic materials
Decomposition Products:	None

EMERGENCY TELEPHONE #: 1-866-303-6952 or 1-651-632-8946

MSDS Number: 00135

Issue Date: 02/08/08

NDA = No Data Available

NA = Not Applicable

SECTION 11: TOXICOLOGICAL INFORMATION**Acute:**

Oral Toxicity: LD₅₀ (rat): >5000 mg/kg

Dermal Toxicity: LD₅₀: >2000 mg/kg

Inhalation Toxicity: Non-toxic at the highest concentration tested, i.e. 6.7 mg/L.

Eye Irritation: This material is not considered a primary eye irritant.

Skin Irritation: This material is not considered a primary skin irritant.

Skin Sensitization: No dermal sensitization (guinea pig).

Subchronic: NDA

Chronic Toxicity: NDA

Carcinogenicity: Not carcinogenic.

Mutagenicity: NDA

Developmental Toxicity: NDA

Reproduction: NDA

Neurotoxicity: NDA

SECTION 12: ECOLOGICAL INFORMATION

Low toxicity to wild animals (birds and fish). Non-toxic to plants.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state and federal regulations.

SECTION 14: TRANSPORT INFORMATION

D.O.T. Shipping Name:	Not regulated
Technical Shipping Name:	Not regulated
Packing Group:	NA
D.O.T. Hazard Class:	NA
U.N/N.A. Number:	NA
Product RQ (lbs):	NA
D.O.T. Label:	NA
D.O.T. Placard:	NA
Marine Pollutant:	NA
IMO :	
IMO Label:	NA
IMO Placard:	NA
European Road/Rail:	
Class:	NA

SECTION 15: REGULATORY INFORMATION

U.S Federal Regulations

FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act): All pesticides are governed under FIFRA. Therefore, the regulations presented below are pertinent only when handled outside of the normal use and applications of pesticides. This includes waste streams resulting from manufacturing/formulation facilities, spills or misuse of products, and storage of large quantities of products containing hazardous or extremely hazardous substances.

CERCLA (Comprehensive Response Compensation, and Liability Act): NA

OSHA (Occupational Safety and Health Administration): This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

SARA Title III (SUPERFUND Amendments and Reauthorization Act):

Section 302 (EHS) TPQ: None

Section 304 (EHS) RQ: None

Section 311/312 CATEGORIES

1. Immediate (Acute) Health Effects; **YES**
2. Delayed (Chronic) Health Effect; **NO**
3. Fire Hazard; **NO**
4. Sudden Release of Pressure Hazard; **NO**
5. Reactivity Hazard; **NO**

TSCA (Toxic Substance Control Act): This product is exempt from TSCA Regulation under FIFRA Section 3 (2)(B)(ii) when used as a pesticide.

State Regulations: Each state may promulgate standards more stringent than the federal government. This section cannot encompass an inclusive list of all state regulations. Therefore, the user should consult state or local authorities.

International Regulations:

Classification: NA

Risk Phrases: NA

Safety Phrases: NA

SECTION 16: OTHER INFORMATION

Reason for issue:	Changes to Product Identity (Section 1) and Composition (Section 2)
Prepared by:	Ashley R. Brown
Issue date:	02/08/08
Supersedes date:	03/11/06
MSDS number:	00135

The information in this MSDS is based on data available to us as of the issue date given herein, and believed to be correct. Contact Arysta LifeScience North America Corporation at (919) 678-4900 to determine if additional data and information have become available since the issue date.

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