

MATERIAL SAFETY DATA SHEET

Section I – Product Information			
Product Name or Identity:	Gliadin Extraction Additive for Dark Chocolate, Cocoa, and Tannin		
Manufacturer's Name:	Neogen Corporation	Emergency Phone No.:	517/372-9200
	620 Lesher Place	Fax No.:	517/372-0108
	Lansing, Michigan 48912	e-mail:	foodsafety@neogen.com
Date Prepared or Revised: 05/05/05			

Section II – Hazardous Ingredients / Identity Information			
Hazardous Components: (Specific Chemical Identity: Common Names)	OSHA PEL (Permissible Exposure Limits)	ACGIH TLV (Threshold Limit Value)	Toxicity Data LD₅₀
Polyvinylpyrrolidone	N/A	N/A	ORL-RAT, 100000 mg/kg

Section III – Physical Characteristics	
Boiling Point: N/A	Specific Gravity (H₂O =):: N/A
Vapor Pressure (mm Hg.): N/A	Melting Point: N/A
Vapor Density (AIR = 1): N/A	Evaporation Rate (Butyl Acetate = 1): N/A
Solubility in Water: N/A	
Appearance and Odor: Powder, very faintly beige.	

Section IV – Fire and Explosion Hazard Data	
Flash Point (Closed Cup): N/A	Flammable Limits: LEL (Lower Explosive Limit) – N/A UEL (Upper Explosive Limit) – N/A
Extinguishing Media: Use water spray, dry chemical powder, carbon dioxide, or appropriate foam.	
Special Fire Fighting Procedures: Firefighters should wear protective equipment and self-contained breathing apparatus.	
Unusual Fire and Explosion Hazards: During heating or in case of fire, emits toxic fumes. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.	

Section V – Reactivity Data			
Stability:	Unstable		Conditions to Avoid: May degrade on exposure to light. Protect from light and moisture. Stable under ordinary conditions of use and storage.
	Stable	X	
Incompatibility (Materials to Avoid): Strong oxidizing agents.			
Hazardous Decomposition or Byproducts: May form Carbon monoxide (CO), Carbon dioxide (CO ₂), and Nitrogen oxides when heated to decomposition.			
Hazardous Polymerization:	May Occur		Conditions to Avoid: Incompatible materials.
	Will Not Occur	X	

Section VI – Health Hazard Data			
Route(s) of Entry:	Inhalation? Yes	Skin? Yes	Ingestion? Yes
Health Hazards: (Acute and Chronic)	Irritant. Irritating to eyes, respiratory system, and skin. May be harmful if absorbed through the skin or inhaled.		
Carcinogenicity:	NTP? No (National Toxicology Program)	IARC Monographs? Group 3 The agent is not classifiable as to carcinogenicity in humans.	OSHA Regulated? No
Signs and Symptoms of Exposure: Irritating to eyes and skin. May be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled or absorbed through the skin.			
Medical Conditions Generally Aggravated by Exposure: Unexcreted particles may be phagocytized by cells of the reticuloendothelial system and deposited in storage sites in the liver, spleen, lung, and bone marrow resulting in the storage disease thesaurosis. Severity and symptoms depend on storage site and nature of the particle.			
Emergency / First Aid Procedures:	Ingestion: If swallowed, seek medical attention immediately. Wash out mouth with water provided person is conscious.		
	Inhalation: Supply fresh air or oxygen. Seek medical attention. If breathing becomes difficult, give oxygen.		
	Eye Contact: Rinse opened eye for at least 15 minutes under running water, lifting lower and upper eyelids occasionally. Seek medical attention.		
	Skin Contact: Remove contaminated clothing immediately. Wash with plenty of soap and water for at least 15 minutes. Seek medical attention. Wash clothing before reuse.		

Section VII – Precautions for Safe Handling and Use	
Accidental Release Measures: Ventilate and wash spill area. Wear suitable protective clothing. Keep unnecessary and unprotected personnel from entering. Sweep up material, place in a bag and hold for waste disposal. Avoid raising dust.	
Waste Disposal Method: Dispose in accordance with all applicable federal, state, and local environmental regulations.	
Handling and Storing: Keep container tightly closed. Protect from moisture. Store away from oxidizing agents. Containers of this material may be hazardous when empty since they retain product residues.	
Other Precautions: Protect from physical damage. Store in a cool, dry well-ventilated location. Ensure good ventilation / exhaustion at the workplace. Avoid inhalation, and contact with skin, eyes, and clothing. Avoid prolonged or repeated exposure.	

Section VIII – Control Measures		
Respiratory Protection (Specify Type): None required where adequate ventilation conditions exist. If airborne concentration exceeds TLV, a self-contained breathing apparatus is advised.		
Ventilation:	Local Exhaust: 50 – 100 CFM	Special: N/A
	Mechanical (General): N/A	Other: N/A
Protective Gloves: Proper disposable gloves		Eye Protection: Chemical resistant safety goggles
Other Protective Clothing or Equipment: Uniform, lab coat, or disposable lab wear.		
Work / Hygienic Practices: Follow the usual precautionary measures for handling chemicals / powder. Keep away from food and beverages. Immediately remove all soiled and contaminated clothing. Avoid contact with eyes, skin, and clothing.		

This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Neogen Corporation shall not be held liable for any damage resulting from handling or from contact with the above product. These suggestions should not be confused with state, municipal or insurance requirements, and constitute NO WARRANTY.