MATERIAL SAFETY DATA SHEET

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Section 1 - Product and Company Information				
Product Name Product Number Brand		APIGENIN, 9 460745 ALDRICH	5%	
Company Address			Street MO 63103 US	
Technical Phone Fax: Emergency Phone		800-325-583 800-325-505 314-776-655	2	
Section 2 - Composition/Information on Ingredient				
Substance Name APIGENIN			CAS # 520-36-5	SARA 313 No
Formula Synonyms	C15H1005 Apigenin * Apigenine * Apigenol * 4H-1-Benzopyran-4-one, 5,7-dihydroxy-2-(4-hydroxyphenyl)- (9CI) * Chamomile * C.I. Natural Yellow 1 * 2-(p-Hydroxyphenyl)-5,7-dihydroxychromone * 4',5,7-Trihydroxyflavaone * 4',5,7-Trihydroxyflavone			
RTECS Number:				
Section 3 - Hazards Identification				
EMERGENCY OVERVIEW Irritant. Irritating to eyes, respiratory system and skin.				
HMIS RATING HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0				
NFPA RATING HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0				
For additional information on toxicity, please refer to Section 11.				
Section 4 - First Aid Measures				
ORAL EXPOSURE If swallowed, wash out mouth with water provided person is conscious. Call a physician.				
INHALATION EXPOSURE				

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. DERMAL EXPOSURE In case of contact, immediately wash skin with soap and copious amounts of water. EYE EXPOSURE In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Section 5 - Fire Fighting Measures FLASH POINT N/A AUTOIGNITION TEMP N/A FLAMMABILITY N/A EXTINGUISHING MEDIA Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. FTREFTGHTTNG Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Emits toxic fumes under fire conditions. EXPOSURE HAZARD(S) Material: Irritant. Section 6 - Accidental Release Measures PROCEDURE(S) OF PERSONAL PRECAUTION(S) Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. METHODS FOR CLEANING UP Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete. Section 7 - Handling and Storage HANDLING User Exposure: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. STORAGE Suitable: Keep tightly closed. Store at -20°C Section 8 - Exposure Controls / PPE ENGINEERING CONTROLS Safety shower and eye bath. Mechanical exhaust required. PERSONAL PROTECTIVE EQUIPMENT Respiratory: Use respirators and components tested and approved

under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Hand: Compatible chemical-resistant gloves. Eye: Chemical safety goggles. GENERAL HYGIENE MEASURES Wash thoroughly after handling. Section 9 - Physical/Chemical Properties Color: Light yellow Appearance Form: Powder Property Value At Temperature or Pressure Molecular Weight 270.24 AMU pН N/A BP/BP Range N/A 300 °C MP/MP Range Freezing Point N/A Vapor Pressure Vapor Density N/A N/A Saturated Vapor Conc. N/A SG/Density N/A Bulk Density N/A Odor Threshold N/A Volatile% N/A VOC Content N/A Water Content < 2 % Solvent Content N/A Evaporation Rate N/A Viscosity N/A Surface Tension N/A Partition Coefficient N/A Decomposition Temp. N/A Flash Point N/A Explosion Limits N/A Flammability N/A Autoignition Temp N/A Refractive Index N/A Optical Rotation N/A N/A Miscellaneous Data Solubility N/A N/A = not available Section 10 - Stability and Reactivity STABILITY Stable: Stable. Materials to Avoid: Strong oxidizing agents. HAZARDOUS DECOMPOSITION PRODUCTS Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide. HAZARDOUS POLYMERIZATION Hazardous Polymerization: Will not occur

Section 11 - Toxicological Information

ROUTE OF EXPOSURE Skin Contact: Causes skin irritation. Skin Absorption: May be harmful if absorbed through the skin. Eye Contact: Causes eye irritation. Inhalation: May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract. Ingestion: May be harmful if swallowed. SIGNS AND SYMPTOMS OF EXPOSURE To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. CHRONIC EXPOSURE - MUTAGEN Species: Human Dose: 5 MG/L Cell Type: lymphocyte Mutation test: Micronucleus test Species: Human Dose: 10 MG/L Cell Type: lymphocyte Mutation test: Sister chromatid exchange Section 12 - Ecological Information No data available. Section 13 - Disposal Considerations APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations. Section 14 - Transport Information DOT Proper Shipping Name: None Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport. IATA Non-Hazardous for Air Transport: Non-hazardous for air transport. Section 15 - Regulatory Information EU ADDITIONAL CLASSIFICATION Symbol of Danger: Xi Indication of Danger: Irritant. R: 36/37/38 Risk Statements: Irritating to eyes, respiratory system and skin. S: 26-36 Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

US CLASSIFICATION AND LABEL TEXT Indication of Danger: Irritant.

Risk Statements: Irritating to eyes, respiratory system and skin. Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing. UNITED STATES REGULATORY INFORMATION

SARA LISTED: No

CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR. DSL: No NDSL: No

Section 16 - Other Information

DISCLAIMER

For R&D use only. Not for drug, household or other uses.

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2007 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.