MATERIAL SAFETY DATA SHEET

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SARA 313

No

Section 1 - Product and Company Information Product Name 2-METHOXYESTRONE Product Number M6379 Brand SIGMA Company Sigma-Aldrich Canada, Ltd Street Address 2149 Winston Park Drive City, State, Zip, Country Oakville ON L6H 6J8 CA Technical Phone: 9058299500 800-424-9300 Emergency Phone: 9058299292 Fax: Section 2 - Composition/Information on Ingredient Substance Name CAS # 2-METHOXYESTRONE 362-08-3 Formula C19H24O3 Section 3 - Hazards Identification EMERGENCY OVERVIEW Harmful. Limited evidence of a carcinogenic effect. Possible carcinogen. Possible mutagen. 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 breathing becomes difficult, call a physician.

DERMAL EXPOSURE In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

EYE EXPOSURE In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5 - Fire Fighting Measures

FLASH POINT

N/A AUTOIGNITION TEMP N/A FLAMMABILITY N/A EXTINGUISHING MEDIA Suitable: Carbon dioxide, dry chemical powder, or appropriate foam. FIREFIGHTING 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. 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 Section 8 - Exposure Controls / PPE ENGINEERING CONTROLS Mechanical exhaust required. PERSONAL PROTECTIVE EQUIPMENT Other: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing. Section 9 - Physical/Chemical Properties Appearance Physical State: Solid Property Value At Temperature or Pressure Molecular Weight 300.4 AMU N/A ЪЦ BP/BP Range N/A MP/MP Range N/A Freezing Point N/A Vapor Pressure N/A N/A Vapor Density 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 N/A 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 Miscellaneous Data N/A Solubility N/A N/A = not available Section 10 - Stability and Reactivity STABILITY Stable: Stable. HAZARDOUS DECOMPOSITION PRODUCTS Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide. HAZARDOUS POLYMERIZATION Hazardous Polymerization: Will not occur Section 11 - Toxicological Information ROUTE OF EXPOSURE Multiple Routes: May be harmful by inhalation, ingestion, or skin absorption. May cause irritation. CONDITIONS AGGRAVATED BY EXPOSURE The toxicological properties have not been thoroughly investigated. Section 12 - Ecological Information No data available. Section 13 - Disposal Considerations APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION 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: Xn Indication of Danger: Harmful. R: 40 Risk Statements: Limited evidence of a carcinogenic effect. S: 22 36 Safety Statements: Do not breathe dust. Wear suitable protective clothing. US CLASSIFICATION AND LABEL TEXT Indication of Danger: Harmful. Risk Statements: Limited evidence of a carcinogenic effect. Safety Statements: Wear suitable protective clothing. Do not breathe dust.

US Statements: Possible carcinogen. Possible mutagen.

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 quarantee 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 2005 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.