MATERIAL SAFETY DATA SHEET

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Section 1 - Product and Company In	formation	
Product Name Product Number Brand	CYSTATHIONINE C3633 SIGMA	
Company Street Address City, State, Zip, Country Technical Phone: Emergency Phone: Fax:	Sigma-Aldrich Canada, Ltd 2149 Winston Park Drive Oakville ON L6H 6J8 CA 9058299500 800-424-9300 9058299292	
Section 2 - Composition/Informatio	n on Ingredient	
Substance Name CYSTATHIONINE	CAS # 535-34-2	SARA 313 No
Formula C7H14N2O4S		
Section 3 - Hazards Identification		
HMIS RATING HEALTH: 0 FLAMMABILITY: 0 REACTIVITY: 0 NFPA RATING HEALTH: 0 FLAMMABILITY: 0 REACTIVITY: 0 For additional information on toxi	city, please refer to Sect	ion 11.
Section 4 - First Aid Measures		
ORAL EXPOSURE If swallowed, wash out mouth wi conscious. Call a physician.	th water provided person i	s
INHALATION EXPOSURE If inhaled, remove to fresh air call a physician.	. If breathing becomes dif	ficult,
DERMAL EXPOSURE In case of contact, immediately amounts of water.	wash skin with soap and c	opious
EYE EXPOSURE In case of contact with eyes, f water for at least 15 minutes. separating the eyelids with fin	Assure adequate flushing b	

Section 5 - Fire Fighting Measures FLASH POINT N/A AUTOIGNITION TEMP N/A FLAMMABILTTY N/A EXTINGUISHING MEDIA Suitable: Water spray. 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) Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust. 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: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. STORAGE Suitable: Keep tightly closed. Store at 2-8°C Section 8 - Exposure Controls / PPE ENGINEERING CONTROLS Safety shower and eye bath. Mechanical exhaust required. PERSONAL PROTECTIVE EQUIPMENT Respiratory: Wear dust mask. Hand: Protective gloves. Eye: Chemical safety goggles. GENERAL HYGIENE MEASURES Wash thoroughly after handling. Section 9 - Physical/Chemical Properties Physical State: Solid Appearance Property Value At Temperature or Pressure Molecular Weight 222.3 AMU

N/A Hα BP/BP Range MP/MP Range N/A 281 °C Freezing Point N/A Vapor Pressure N/A Vapor Density 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 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 N/A Optical Rotation Miscellaneous Data N/A 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, Nitrogen oxides, Sulfur oxides. HAZARDOUS EXOTHERMIC REACTIONS Hazardous Exothermic Reactions: Will not occur HAZARDOUS POLYMERIZATION Hazardous Polymerization: Will not occur Section 11 - Toxicological Information ROUTE OF EXPOSURE Skin Contact: May cause skin irritation. Skin Absorption: May be harmful if absorbed through the skin. Eye Contact: May cause eye irritation. Inhalation: May be harmful if inhaled. Material may be

SIGNS AND SYMPTOMS OF EXPOSURE To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

irritating to mucous membranes and upper respiratory tract.

Section 12 - Ecological Information

Ingestion: May be harmful if swallowed.

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

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