MATERIAL SAFETY DATA SHEET

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Section 1 - Product and Company Information		
Product Name Product Number Brand	5,6-DIHYDROXYTRYPTAMINE CREATININE & D9259 SIGMA	
Company Address Technical Phone: Fax: Emergency Phone:	Sigma-Aldrich Canada, Ltd 2149 Winston Park Drive Oakville ON L6H 6J8 CA 9058299500 9058299292 800-424-9300	
Section 2 - Composition/Info	rmation on Ingredient	
Substance Name 5,6-DIHYDROXYTRYPTAMINE CREA SULFATE	CAS # SARA 313 FINE 36928-25-3 No	
FormulaC10H12N2O2C4Synonyms5,6-DhtcreatRTECSNumber:NL7869000	H9N3O2S Linine sulfate hydrate	
Section 3 - Hazards Identific	cation	
HMIS RATING HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0 NFPA RATING HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0 For additional information or	d inhalation. Target organ(s): Nerves. h toxicity, please refer to Section 11.	
Section 4 - First Aid Measure	28	
conscious. Call a physicia INHALATION EXPOSURE	uth with water provided person is an. sh air. If breathing becomes difficult,	
DERMAL EXPOSURE In case of contact, immediately wash skin with soap and copious amounts of water.		

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: 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 -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). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Hand: Protective gloves. Eye: Chemical safety goggles. GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

Section 9 - Physical/Ch	nemical Properties	
Appearance	Physical State: So Color: White	olid
Property	Value	At Temperature or Pressure
Molecular Weight	N/A	
pH	N/A	
BP/BP Range	N/A	
MP/MP Range	216.0 - 218.0 °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	
Optical Rotation	N/A	
Miscellaneous Data	N/A	
Solubility	N/A	
N/A = not available	IN/ Z1	
Section 10 - Stability	and Reactivity	
STABILITY		
Stable: Stable.		
Materials to Avoid:	Strong oxidizing ag	gents.
HAZARDOUS DECOMPOSITION		
		on monoxide, Carbon dioxide,
Nitrogen oxides, Sul	ltur oxides.	
HAZARDOUS POLYMERIZATIO		
Hazardous Polymeriza	ation: Will not occu	ır
Section 11 - Toxicologi	ical Information	
ROUTE OF EXPOSURE	una akin innitation	
Skin Contact: May ca		
Eve Contact: May cau		orbed through the skin.

Eye Contact: May cause eye irritation. Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled. Ingestion: May be harmful if swallowed.

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TARGET ORGAN(S) OR SYSTEM(S)
   Nerves.
SIGNS AND SYMPTOMS OF EXPOSURE
   Induces chemical degeneration of the central monoamine nerve
   terminals, especially selective for serotonin neurons
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
   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
US CLASSIFICATION AND LABEL TEXT
   US Statements: Caution: Avoid contact and inhalation. Target
   organ(s): Nerves.
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
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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

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