



8210 N. Austin Avenue, Morton Grove, IL 60053-0519, U.S.A.
 847-967-6000 800-323-8144
 (Monday - Friday: 7:30 a.m. - 4:00 p.m. CST)

Emergency Contact:
 INFOTRAC 800-535-5053 [U.S.A.]

Name: 5,7-Dihydroxytryptamine Creatinine Sulfate
 Code: 281126

..... **MATERIAL SAFETY DATA SHEET**

SECTION 1 PRODUCT IDENTIFICATION

Name: 5,7-Dihydroxytryptamine Creatinine Sulfate
 Code: 281126

SECTION 2 COMPOSITION, INFORMATION ON INGREDIENTS

Synonyms

7-Hydroxyserotonin creatinine sulfate; 5,7-DHT; 5,7-Dihydroxytryptamine creatinine sulfate; 2-amino-1,5-dihydro-1-methyl-4H-Imidazol-4-one compd. with 3-(2-aminoethyl)-1H-indole-5,7-diol sulfate (salt) (1:1:1); 3-(2-aminoethyl)-1H-Indole-5,7-diol compd. with 2-amino-1,5-dihydro-1-methyl-4H-imidazol-4-one sulfate (salt) (1:1:1)

CAS #: 39929-27-6

MF: C₁₄H₁₉N₅O₃•H₂SO₄

Ingredients

	<i>Concentration (%/wt)</i>
5,7-DHT (39929-27-6).....	98.0 %
Manufacturing impurities.....	NMT 2.0 %

SECTION 3 HAZARDS IDENTIFICATION

Precautionary Statements

See Sections 8 and 11 for further details.

Possible irritant.

..... **Emergency Overview**

NFPA Ratings (Scale 0-4); Health = 1; Fire = 1; Reactivity = 1; light and air sensitive

Solid: Off-white to beige powder

May be irritating to skin, eyes, mucous membranes, and upper respiratory tract. Harmful if ingested or inhaled.

The properties of this material have not been fully investigated. Use due caution in handling and use of this material.

May emit toxic fumes under fire conditions--carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides

Standard chemical handling precautions: Avoid ingestion or breathing dust. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

Target organs: nerves

See Sections 4, 5, 6, 8, 9, and 10.

Other Hazard Information

This compound has not fully been tested for toxicological, irritation, or similar tendencies.

Primary Route(s) of Entry: Ingestion, Eye or Skin contact, Dust inhalation

Eye: May be irritating with tearing, stinging, redness, and swelling.

Skin: May be irritating with stinging, redness, and swelling.

Inhalation: May be irritating to respiratory system and mucous membranes, resulting in cough with sore or dry scratchy feeling in mouth and throat. May be harmful with effects similar to ingestion.

Ingestion: May be irritating. Harmful if swallowed. May cause somnolence (general depressed activity) and adversely effect the nervous system.

Acute/ Chronic: See specific route above.

Symptoms: See specific route above.

Pre-existing conditions that may be aggravated: nerve.

See Section 11 for additional toxicological data.

Abbreviations: NA—not applicable; NE—not established; U—unknown/not available; NL—not listed; N—no; Y—yes.; NDA-No data available.



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SECTION 4 FIRST AID MEASURES

Eye contact: Immediately flush eyes with copious amounts of water or eyewash solution for at least 15 minutes; lift eyelids occasionally. If irritation persists, consult physician.
 Skin contact: Immediately remove contaminated clothing and shoes, then wash skin with soap and copious amounts of water. If irritation persists, consult physician.
 Inhalation: Remove to fresh air. If not breathing, give artificial respiration and keep person warm and at rest. If breathing is difficult, give oxygen; consult physician.
 Ingestion: Wash out mouth with water provided person is conscious; consult physician.
Wash contaminated clothing before reuse.
 Physician note: Symptomatic and supportive care. No specific antidote known. Treatment based on physician judgment in response to reactions of the patient.

SECTION 5 FIRE FIGHTING MEASURES

Flash Point: NA Method: NA Autoignition: NE
 OSHA Flammability Class: NA Flammable Limits: upper: NE
 NFPA: See Section 3 **Hazards Identification** *Emergency Overview* above. lower: NE

Extinguishing Media

Water spray, carbon dioxide, dry chemical powder, or appropriate foam.

Special or Standard Fire Fighting Procedures

None.

Standard Fire and Explosion Hazards

Standard precautions for fighting large fires involving chemicals: Wear self-contained breathing apparatus (SCBA) and protective clothing to prevent contact with skin and eyes.

Unusual Fire and Explosion Hazards

Slight fire hazard--As with most organic compounds, fire is possible at elevated temperatures or from contact with an ignition source.

This chemical is not expected to have an explosion potential.

Avoid inhalation of material or combustion by-products.

Possible Hazardous Combustion or Decomposition Products

carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides

SECTION 6 ACCIDENTAL RELEASE MEASURES

Negligible fire hazard.

Evacuate unnecessary people from area. Isolate spilled material.

Ventilate area.

Wear protective clothing to prevent contact with skin and eyes (lab coat, gloves, safety glasses).

Wear NIOSH/MSHA approved respirator for organic/amine dust to prevent inhalation irritation.

Contain and recover material when possible.

If neat, or in solution, use chemically compatible spill pillows, or similar adsorbent material.

Sweep up, seal in appropriate hazardous waste container, and hold for proper waste disposal.

Wash spill site after material pickup is complete.

Standard chemical precautions: Keep out of water supplies and sewers.



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SECTION 7 HANDLING AND STORAGE.....

General Handling Measures

See Section 8 Below.

General Storage Measures

Store under nitrogen in the dark, in closed vessel cool, dry place with adequate ventilation.

Special Storage Instructions

None

Special Handling Instructions

None

SECTION 8 EXPOSURE CONTROLS, PERSONAL PROTECTION.....

Airborne Exposure Limits

		TWA (8H)		STEL		Ceiling Limit		Ceiling (skin)	
		ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
5,7-Dihydroxytryptamine Creatinine Sulfate 39929-27-6	OSHA PEL/VPEL	NE	NE	NE	NE	NE	NE	NE	NE
	ACGIH - TLV	NE	NE	NE	NE	NE	NE	NE	NE

NE = Not established

Special/Other Control Measures

Odor threshold: NE

Personal Protective Equipment (PPE)

OSHA/ANSI approved chemical safety eyewear or goggles

Compatible chemical-resistant gloves

Wear NIOSH/MSHA approved respirator for organic/amine dust to prevent inhalation irritation.

Protective Clothing (e.g., lab coat)

Other Standard Safety Equipment and Engineering Preventive Measures

Safety shower and eye wash

Mechanical exhaust required. Hood recommended.

General Precautions and Handling Measures

Avoid ingestion, inhalation and contact with eyes, skin, and clothing.

Avoid prolonged or repeated exposure. Wash thoroughly after handling.

Wash contaminated clothing before reuse. Dispose of contaminated footwear.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES.....

Chemical Family: Aromatic Amine

Use: Research and Development Biochemical

Appearance, Odor, and Other Properties

Appearance: Off-white to beige powder

Odor: NE

bp (1 atm): NA

Reactivity: No

Freezing/MP: 240°C (463°F) dec.

Solubility in Water: moderate

FW: 439.40

Specific Gravity (H₂O = 1.0): 1.279

VP (mmHg): NA

Vapor Density (air=1): NA

% Volatiles (H₂O = 1.0): NE

Evap. Rate (BuAc = 1.0): NA

Octanol/Water (LK_{ow}): NE

Refractive Index (n_D²⁰): NA

Soluble in Organic Solvents: NE

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SECTION 10 STABILITY AND REACTIVITY

Stability

Stable

Incompatibilities

Strong oxidizers
 Air and light--oxidizes

Precautions

Avoid incompatibilities.
 Protect from heat and ignition sources.
 Keep out of water supplies and sewers.

Possible Hazardous Combustion or Decomposition Products

carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides

Hazardous Polymerization

None

SECTION 11 TOXICOLOGICAL INFORMATION.....

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS #

CAS #

NL7869100	5,7-Dihydroxytryptamine Creatinine Sulfate	39929-27-6
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Only selected Registry of Toxic Effects of Chemical Substances data (RTECS) is presented here.
 See actual entry in RTECS for complete information.

Irritation Data

	eye	skin
5,7-Dihydroxytryptamine Creatinine Sulfate	NDA	NDA

NDA = No data available

Toxicity Data

	oral	inhalation	dermal or other
5,7-Dihydroxytryptamine Creatinine Sulfate	NDA	NDA	dermal--NDA intracerebral mus LDLo 3932 ug/kg

Carcinogenicity

	OSHA	IARC	NTP	ACGIH	NIOSH	Notes
5,7-Dihydroxytryptamine Creatinine Sulfate	NL	NL	NL	NL	NL	None

NL = Not Listed as a carcinogen;

Teratogenicity and Reproductive Effects

No data available.

Neurotoxicity

5,7-Dihydroxytryptamine creatinine sulfate induces chemical degeneration of the central monoamine nerve terminals, especially selective for serotonin neurons.

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Mutagenicity

No data available.

Miscellaneous

No data available.

Acute and Chronic Effects

Section 3 **Hazards Identification** above.

SECTION 12 ECOLOGICAL INFORMATION.....

No data available.

Standard Chemical Precautions

Keep out of water, air, and soil.

SECTION 13 DISPOSAL CONSIDERATIONS.....

That, which cannot be recovered or recycled, should be disposed of in accordance with all applicable Federal, State, and local environmental regulations.

RCRA waste code(s): none

RCRA Hazard Class (40CFR 261): None

SECTION 14 TRANSPORT INFORMATION.....

Ship in accordance with all applicable local, State, Federal, and International transportation regulations.

The following is a summary only. Check regulations for complete information:

U. S. Department of Transportation (49CFR171.101)

Shipping Name: not regulated.

ID Number: NA

Hazard Class or Division: NA

Packing Group: NA

Labeling: NA

SECTION 15 REGULATORY INFORMATION

Reviews, Standards, and Regulations

..... 5,7-Dihydroxytryptamine
 Creatinine Sulfate
 CAS number 39929-27-6
 TSCA:..... NL*
 *This compound is sold strictly for FDA or research and development use.
 EINECS:..... NL
 Number NA
 CERCLA [Section 103 (40 CFR 302.4)]: NL
 RQ (lbs)..... NA
 RCRA Waste Code NA
 OSHA Process Safety [29 CFR 1910.119]: NL
 TQ (lbs)..... NA
 Clean Air Act
 [Section 112r (40 CFR 68)]: NL
 TQ (lbs)..... NA
 Contains Ozone Depleters (Class I or Class II)..... N

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 CAS number 39929-27-6
 State Lists: NL
 States NL
 On CA 65 Significant Risk Level NL
 SARA Title III Notification [40 CFR 302.4]:
 Section 302/304 (EHS) Ingredient
 [40 CFR 355.3] NL
 TPQ (lbs) NA
 RQ (lbs) NA
 Section 313 Ingredient [40 CFR 372.65] NL

Hazard Classes

Sara	Acute	Chronic	Fire	Pressure	Reactivity
Title III	Y	N	N	N	N
	Health	Flammability	Reactivity	Special Hazards	
NFPA	1	1	0	None	
HMIS	1	1	0	None	

Risk Phrases:

Caution: The properties of this material have not been fully investigated.
 R20/22 Harmful by inhalation and if swallowed
 R36/37/38 Irritating to eyes, respiratory system, and skin.

Safety Phrases:

S1/2 Keep locked up and out of reach of children
 S13 Keep away from food, drink, and animal feeding stuffs
 S27 Take off immediately all contaminated clothing.
 S36/37/39 Wear suitable protective clothing, gloves, and eye/face protection.
 S44 If you feel unwell, seek medical advice immediately (show the label where possible.)

SECTION 16 OTHER INFORMATION

Miscellaneous

The health and toxicological hazards of this compound have not been fully investigated; therefore, this substance must be handled only by, or under close supervision of those qualified in the handling and use of potentially hazardous substances.

This MSDS was revised as follows:

This MSDS was updated from a 10-section format to a 16-section format. Consider all sections to contain new information.

Disclaimer

The above information is believed to be correct, but does not purport to be all-inclusive and shall be used only as a guide. Regis Technologies, Inc., does not guarantee said information is accurate or complete, *nor shall any of this information constitute a warranty, whether expressed or implied, as to the safety of the goods, the merchantability of the goods, or the fitness of the goods for a particular purpose.* Adjustment may be required to conform to the actual conditions of usage. Regis Technologies, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product, nor for the results obtained, or for incidental or consequential damage arising from the use of these data. No freedom from infringement of any patent, copyright or trademark is to be inferred.

Approved of by: MBF

This is the last page of this MSDS.

Reviewed and re-approved of with minor changes to the abbreviations in the footer and format.
 by: JP

08/04/08

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