



8210 N. Austin Avenue, Morton Grove, IL 60053-3205, 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: D-Luciferin Potassium Salt
 Code: 1-360101-100, 1-360221-200, 1-360222-200, 1-360223-200, 1-360224-200, 1-360225-200, 1-360226-200, 1-360311-200

SAFETY DATA SHEET

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

- 1.1 Product Identifier
 - Name D-Luciferin Potassium Salt
 - Code 1-360101-100, 1-360221-200, 1-360222-200, 1-360223-200, 1-360224-200, 1-360225-200, 1-360226-200, 1-360311-200
- 1.2 Use of Substance/Mixture
 - Use Analytical—Used in ATP assays
- 1.3 Details of Manufacturer/Supplier
 - Company Regis Technologies, Inc.
 8210 N. Austin Avenue
 Morton Grove, IL 60053
 847-967-6000; 800-323-8144 (toll free)
 Email: cservice@registech.com
 www.registech.com
- 1.4 Emergency Telephone
 - INFOTRAC 800-535-5053 [U.S.A.]

SECTION 2 HAZARDS IDENTIFICATION

- 2.1 Classification of the Substance or Mixture
 - OSHA Hazards No known OSHA hazards.
 - Target Organs None known.
- Hazard Indication (67/548/EEC or 1999/45/EC)
 - Symbol(s) NA
 - R-Phrase(s) NA
 - S-Phrase(s) S24/25 Avoid contact with skin and eyes.
 S6 Keep under nitrogen.
 S7/47 Keep container tightly closed and at a temperature not exceeding -20°C.
- GHS Classification
 - Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).
- GHS Label Elements
 - Pictograms or hazard symbols Not applicable
 - Signal Word Not applicable
 - Hazard Statement Not applicable
 - Precautionary Statements Not applicable
 - [Response] P302+P352-IF ON SKIN: Wash with plenty of soap and water.
 P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - [Storage] P404: Store in a closed container.
 P411+P235+P410: Store at temperatures not exceeding -20 °C/-4°F. Keep cool. Protect from light.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Name D-Luciferin Potassium Salt

Synonyms D-(-)-Luciferin Potassium Salt; (S)-Luciferin Potassium Salt; Firefly Luciferin Potassium Salt; (S)-2-(6-Hydroxy-2-benzothiazolyl)-2-thiazoline-4-carboxylic acid; 4,5-Dihydro-2-(6-hydroxy--2Δ-benzothiazolyl)-4-thiazolecarboxylic acid; Luciferin Potassium Salt

Some abbreviations used throughout this MSDS: NA=not applicable; NE=not established; U=unknown/unavailable; NL=not listed; N=no; Y=yes.



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CAS No. 115144-35-9
 EINECS No. none
 Chem. Formula C₁₁H₇N₂O₃S₂K
 Mol. Weight 318.41

Ingredients		Concentration (%/wt)
D-Luciferin Potassium Salt (115144-35-9)	NLT 99.0 %
Manufacturing impurities	NMT 1.0 %

SECTION 4 **FIRST AID MEASURES**

- 4.1 Description of first aid measures
 General: Do not attempt to neutralize as it frequently makes matters worse.
 Eye contact: Rinse eyes with plenty of water 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 plenty of water. If irritation persists, consult physician.
 Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and keep person warm and at rest. Consult physician.
 Ingestion: Give large amounts of water or milk (two glasses at most). Avoid vomiting. Consult physician immediately.
 Physician note: Symptomatic and supportive care. There is no specific antidote.
- 4.2 Most important symptoms and effects, both acute and delayed.
 Eyes-may cause mild irritation on contact. May be irritating to skin. May be irritating to mucous membranes, if mists are inhaled. May be harmful if ingested.
- 4.3 Indication of immediate medical attention and special treatment needed.
 No information available.

SECTION 5 **FIRE-FIGHTING MEASURES**

- 5.1 Suitable Extinguishing Media
 Not applicable.
- 5.2 Specific hazards arising from the chemical.
 Non flammable or combustible.
 Explosion potential--none.
 Avoid inhalation of material or combustion by-products.
 Emits toxic fumes under fire conditions: May emit carbon oxides, sulfur oxides, nitrogen oxides.
- 5.3 Advice for fire-fighters
 Wear protective clothing to prevent contact with skin and eyes.

SECTION 6 **ACCIDENTAL RELEASE MEASURES**

- 6.1 Personal precautions, protective equipment, and emergency procedures
 For non-emergency personnel - Avoid material contact or inhalation of mists. Evacuate unnecessary personnel from area.
 For emergency responders – Wear protective clothing to prevent contact with skin and eyes. Avoid breathing mists. See Section 8.3.
- 6.2 Environmental precautions
 Prevent material from entering drains.

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Decomposition temperature	No data available.
OSHA Flammability Class	No data available.
Evaporation Rate (BuAc = 1.0)	No data available.
Vapor pressure (mmHg)	<1 @ 20°C
Vapor density (air=1):	> 1 (air = 1)
Relative density (g/cm ³)	1.425
Water Solubility	Miscible.
Water reactive	No data available.
Solubility (other)	No data available.
Partition coefficient: N-octanol/water	Kow (Pow) = No data available.
Viscosity	No data available.
UV Absorbance:	ε _{385 ± 2 nm} = 17,500 0.5M Na ₂ CO ₃ , pH 11.5
Solubility in organic solvents	methanol, acetone, ethyl acetate, DMF

SECTION 10 **STABILITY AND REACTIVITY**

- 10.1 Reactivity
No dangerous reaction known under conditions of normal use.
- 10.2 Chemical Stability
Stable if stored dry, under nitrogen in light-tight containers, in the dark at or below -20°C.
- 10.3 Possibility of hazardous reactions
No hazardous reactions known under conditions of normal use.
- 10.4 Conditions to avoid
Avoid incompatibilities.
Keep out of water supplies and sewers.
- 10.5 Incompatible materials
Light (photosensitive), heat, air sensitive—Discolors or decomposes upon exposure to light, heat, and/or air.
Oxidizers
- 10.6 Hazardous decomposition products
Combustion carbon oxides, sulfur oxides, nitrogen oxides, potassium compounds

SECTION 11 **TOXICOLOGICAL INFORMATION**.....

11.1 Toxicological Information		
Acute toxicity	Oral LD50	No data available.
	Inhalation LC50	No data available.
	Dermal LD50	No data available.
	Other acute toxicity	No data available.
Skin corrosion/irritation	No data available.	
Serious eye damage/irritation	No data available.	
Respiratory irritation	No data available.	
Respiratory or skin sensitization	No data available.	
Germ cell mutagenicity	No data available.	
Carcinogenicity		
IARC	No data available.	
NTP	No data available.	
OSHA	No data available.	
Reproductive toxicity (Including teratogenicity)	No data available.	

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Specific target organ toxicity (STOT)
 STOT-single exposure No data available.
 STOT-repeated exposure No data available.
 Aspiration hazard No data available.
 RTECS Number Not available

11.2 Further Information
 Potential health effects
 Eye May be irritating.
 Skin May be irritating.
 Inhalation May be irritating to mucous membranes and respiratory tract. May be harmful.
 Ingestion May be harmful.
 Symptoms See above route. Pre-existing conditions that may be aggravated: not determined.
 Miscellaneous No data available.

SECTION 12 ECOLOGICAL INFORMATION

12.1 Ecotoxicity No data available.
 12.2 Persistence and degradability No data available.
 12.3 Bioaccumulative potential BCF = No data available.
 12.4 Motility in soil Log Kow = No data available.
 12.5 Other adverse effects No data available.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Disposal methods
 U . S. EPA Waste Codes None
 Waste Characterization RCRA Hazard Class (40CFR 261): none
 (per U. S. regulations) Generator is responsible for proper waste characterization. NOTE: U. S. state hazardous waste regulations may differ considerably from U. S. Federal regulations.
 Waste Disposal That which cannot be recovered or recycled, should be disposed of in accordance with all applicable international, national, regional, state, and local laws. Do NOT dump into any sewer, on ground, or into any body of water.

SECTION 14 TRANSPORT INFORMATION

14.1 UN number Not applicable. Not regulated—Not a dangerous goods.
 14.2 UN proper shipping name Not applicable.
 14.3 Transport Hazard Class Not applicable.
 14.5 Packing group Not applicable.
 14.6 Environmental hazards Not applicable
 14.6 Special precautions for user See Section 8 for exposure/personal protection guidance.
 NA Emergency Guidebook Number: Not applicable.

SECTION 15 REGULATORY INFORMATION

15.1 Safety, health and Environmental regulations specific for the product in question.

OSHA Health: No known hazards. Physical: No known hazards.
 NFPA: H0 F0 R0 HMIS: H0 F0 PH0

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15.2 Chemical Inventory Lists

..... D-Luciferin Potassium Salt
 CAS Number..... 115144-35-9
 TSCA: NL
 EINECS:..... NL
 Number..... NA
 OSHA Process Safety [29 CFR 1910.119]: NL
 TQ (lbs)..... NA
 CERCLA [Section 103 (40 CFR 302.4)]:..... NL
 RQ (lbs) NA
 RCRA Waste Code..... NA
 Clean Air Act
 [Section 112r (40 CFR 68)]:..... NL
 TQ (lbs)..... NA
 Contains Ozone Depleters (Class I or Class II) N
 [Section 103 (40 CFR 302.4)]: 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
 SARA Hazards Acute..... N Chronic..... N Fire.....N Pressure..... N ReactivityN
 State Lists: NL
 States..... NL
 On CA 65 Significant Risk Level..... NL

SECTION 16 **OTHER INFORMATION**

16.1 Literature References

None.

The above information is believed to be correct to the best of our present state knowledge, but does not purport to be all-inclusive and shall be used only as a guide. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.

This is the last page of this MSDS.

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