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A Geno Technology, Inc. (USA) brand name

Safety Data Sheet

Cat. # RC-244

D-Luciferin Firefly, sodium salt monohydrate

Size: 4g





Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 5/6/2013 Revision date: 5/11/2017 Version: 1.1

SECTION 1: Identification of the substant 1.1. Product identifier	ance/mixture and of the compar	iy/underta	king
Product form	: Substance		
rade name	: D-Luciferin Firefly, potassium salt		
CAS-No.	: 103404-75-7		
Product code	: 962A		
ormula	: C11H7N2NaO3S2.H2O		
Product group	: Raw material		
Other means of identification	: LUCNA, Sodium salt LUCNA, Sodium	Luciferin, Fir	efly Luciferin Sodium salt
.2. Relevant identified uses of the substar			
.2.1. Relevant identified uses			
Jse of the substance/mixture	: Water soluble substrate for firefly lucife	erase, produce	es bioluminescence.
lse of the substance/mixture	: Research and development		
.2.2. Uses advised against			
lo additional information available			
.3. Details of the supplier of the safety dat	a sheet		
Geno Technology, Inc./ G-Biosciences			
)800 Page Avenue)3132-1429 Saint Louis - United States			
800-628-7730 - F 314-991-1504			
echnical@GBiosciences.com - www.GBiosciences	<u>.com</u>		
.4. Emergency telephone number			
mergency number	Chemtrec 1-800-424-9300 (USA/Canada)	, +1-703-527 .	-3887 (Intl)
ECTION 2: Hazards identification			
2.1. Classification of the substance or mixt	ure		
Classification according to Regulation (EC) No.	1272/2008 [CLP]		
Not classified			
Adverse physicochemical, human health and en			
o our knowledge, this product does not present an	y particular risk, provided it is handled in a	ccordance wit	h good occupational hygiene and safe
ractice.			
2.2. Label elements			
abelling according to Regulation (EC) No. 1272	/2008 [CLP]		
lo labelling applicable			
.3. Other hazards			
lo additional information available			
ECTION 2. Composition/information	an ingradianta		
	on ingredients		
.1. Substances			
.1. Substances	on ingredients Product identifier	%	Classification according to
3.1. Substances		%	Regulation (EC) No.
.1. Substances Name	Product identifier		Regulation (EC) No. 1272/2008 [CLP]
3.1. Substances		% 100	Regulation (EC) No.
SECTION 3: Composition/information of 3.1. Substances Name D-Luciferin Firefly, sodium salt monohydrate 3.2. Mixtures	Product identifier		Regulation (EC) No. 1272/2008 [CLP]
3.1. Substances Name D-Luciferin Firefly, sodium salt monohydrate 3.2. Mixtures	Product identifier		Regulation (EC) No. 1272/2008 [CLP]
3.1. Substances Name D-Luciferin Firefly, sodium salt monohydrate 3.2. Mixtures Jot applicable	Product identifier		Regulation (EC) No. 1272/2008 [CLP]
B.1. Substances Name D-Luciferin Firefly, sodium salt monohydrate	Product identifier		Regulation (EC) No. 1272/2008 [CLP]

4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effects, both acute and delayed	
No additional information available	

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4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically.

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Water spray. Dry powder. Foam.	
5.2. Special hazards arising from the substance or mixture		
Hazardous decomposition products in case of fire	: Toxic fumes may be released.	
5.3. Advice for firefighters		
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	

SECTION 6: Accidental release measures	
6.1. Personal precautions, protective equipme	
6.1.1. For non-emergency personnel	
C 1	: Ventilate spillage area.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containment an	
	: Mechanically recover the product.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
-	: Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including an	
Storage conditions	: Store in a well-ventilated place. Keep cool.
Storage temperature	: -20 °C
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/personal	protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Appropriate engineering controls:	
Ensure good ventilation of the work station.	
Hand protection:	
Protective gloves	
Eye protection:	

Safety glasses Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls:

Avoid release to the environment.

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SECTION 9: Physical and chemical properties	
9.1. Information on basic physical and che	
Physical state	: Solid
Molecular mass	: 320.32 g/mol
Colour	: Off-white to yellow.
Odour	: No data available
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: Not applicable
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable
9.2. Other information No additional information available	

SECTION 10: Stability and reactivity
10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).
10.5. Incompatible materials
No additional information available
10.6. Hazardous decomposition products
Hazardous decomposition products.
SECTION 11: Toxicological information
11.1. Information on taxical action of the sta

11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

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SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified
2.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential No additional information available	
I2.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessment No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
I3.1. Waste treatment methods	
Naste treatment methods	: Waste treatment methods.
SECTION 14: Transport information	
n accordance with ADR / RID / IMDG / IATA / ADN 14.1. UN number	
JN-No. (ADR)	: Not regulated
JN-No. (IMDG)	: Not regulated
JN-No. (IATA)	: Not regulated
JN-No. (ADN)	: Not regulated
JN-No. (RID)	: Not regulated
I4.2. UN proper shipping name	. Not regulated
Proper Shipping Name (ADR)	: Not regulated
Proper Shipping Name (IMDG)	: Not regulated
Proper Shipping Name (IATA)	: Not regulated
Proper Shipping Name (ADN)	: Not regulated
Proper Shipping Name (RID)	: Not regulated
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not regulated
IMDG	· Not regulated
Transport hazard class(es) (IMDG)	: Not regulated
Fransport hazard class(es) (IATA)	: Not regulated
ADN	
ransport hazard class(es) (ADN)	: Not regulated
RID	
Fransport hazard class(es) (RID)	: Not regulated
4.4. Packing group	
Packing group (ADR)	: Not regulated
Packing group (IMDG)	: Not regulated
Packing group (IATA)	: Not regulated
Packing group (ADN)	: Not regulated
Packing group (RID)	: Not regulated
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No

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14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

D-Luciferin Firefly, potassium salt is not on the REACH Candidate List

D-Luciferin Firefly, potassium salt is not on the REACH Annex XIV List

D-Luciferin Firefly, sodium salt monohydrate is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

D-Luciferin Firefly, sodium salt monohydrate is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

15.1.2. National regulations

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Safety Data Sheet applicable for regions

: GB - United Kingdom

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.