

Safety Data Sheet

according to OSHA HCS 29 CFR 1910.1200(g)



Trade name: **Vargulin or Cypridina Luciferin**
Product No: 305

Revision date: 07/29/2021

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifiers

Product name: **Cypridina Luciferin**
Product No.: 305
Manufacturer: Prolume / NanoLight

CAS-no.: 7273-34-9
EC-no.:

Other means of identification: Vargulin, Cypridina Luciferin

Relevant identified uses of the substance or mixture and uses advised against

Identified uses: laboratory chemical

Details of the supplier of the safety data sheet

Supplier: Prolume
P.O. Box 2746
Pinetop, AZ 85935
USA

phone: +1 928-367-1200
email: info@prolume.com

Emergency telephone number

Phone: +1 928-367-1200

2. HAZARD IDENTIFICATION

Classification of the substance or mixture

GHS classification in accordance with 29 CFR 1910 (OSHA HCS) and No 1272/2008 [CLP] (EC)

GHS label elements including precautionary statements

Pictogram NONE
Signal word NONE
Hazard statement
Precautionary statements: NONE
NONE

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NFPA ratings (scale 0-4)

Health = 0

Fire = 0

Reactivity = 0

HMIS-ratings (scale 0-4)

Health = 0

Fire = 0

Reactivity = 0

Hazards not otherwise classified (HNOC) or not covered by GHS

none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Synonyms: Vargulin or *Cypridina hilgendorfi* Luciferin or 2-[3-[2-[(2S)-butan-2-yl]-6-(1H-indol-3-yl)-3-oxo-7H-imidazo [2, 1-c]pyrazin-8-yl]propyl]guanidine

Formula: $C_{22}H_{27}N_7O$

Molecular weight: 405.5 g/mol

CAS-No.: 7273-34-9

4. FIRST AID MEASURES

Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

None

Indication of any immediate medical attention and special treatment needed

No further relevant data available

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5. FIREFIGHTING MEASURES

Suitable extinguishing media

Water, dry chemical, carbon dioxide, Halon, or standard foam

Special protective equipment for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid breathing vapors, mist or gas. Remove all sources of ignition.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Wipe surface with moist towel.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid inhalation of vapor or mist. Avoid direct contact with substance.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Store desiccated at -20°C. Product is light sensitive. Protect from light at all times.

8. EXPOSURE CONTROLS – PERSONAL PROTECTION

Components with workplace control parameter

Substance: Cypridina Luciferin CAS# 7273-34-9 Cat.# 305

Control parameter: No information available

Personal protective equipment

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Respiratory protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	Cypridina Luciferin
Appearance	Red-brown crystalline powder
Odor	No data available
Odor threshold	No data available
pH	No data available
Melting point / freezing point	No data available
Boiling point	No data available
Flash point	Not very flammable
Evaporate rate	No data available
Flammability	Not very flammable
Explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility	Slightly to insoluble
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

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10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No data available.

Conditions to avoid: Keep away from moisture, air, and light.

Materials to avoid: Oxidizing agents

Hazardous decomposition products: Thermal decomposition may release acrid smoke and irritating fumes.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Oral LD50	None
Inhalation LC50	None
Dermal LD50	None

Other information on acute toxicity no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: May be irritating in dust form

Respiratory or skin sensitization: May be irritating to respiratory tract & mucus membranes

Germ cell mutagenicity: no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System): no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System): no data available

Aspiration hazard: no data available

Additional Information RTECS: None

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12. ECOLOGICAL INFORMATION

Toxicity: no information available

Persistence and degradability: no information available

Biodegradation: no information available

Mobility in soil: no information available

Results of PBT and vPvB assessment: no information available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. DISPOSAL CONSIDERATIONS

Do not dispose product directly into sewage. Consult local state or national regulation for proper disposal.

14. TRANSPORT INFORMATION

IATA, IMDG, DOT(US) not dangerous good

UN number: none

UN proper shipping name: none

Transport hazard class: none

Packing group: none

Environmental hazards: none

Special precaution for user: none

15. REGULATORY INFORMATION

US Federal Regulations US Toxic Substances Control Act (TSCA): Not listed

SARA 302: No chemicals were found.

SARA 313: No chemicals were found.

SARA 311/312 Hazards: No chemicals were found.

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16. OTHER INFORMATION

Classification according to Regulation (EC) Nr. 1272/2008

Prepared by: Regulatory Department - Prolume Inc.

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Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. Prolume shall not be held liable for any damage resulting from handling or contact with the above product.

Department issuing SDS:

Prolume Inc.
P.O. Box 2746
Pinetop, AZ 85935

Date of preparation / revision: 07/29/2021

Abbreviations and acronyms:

DOT: US Department of Transportation

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health