Safety Data Sheet

according to OHSA HCS 29 CFR 1910.1200(g)

Trade name: **NLuc GLOW assay** Revision date: 06/01/2020
Product No: 325

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifiers

Product name: NLuc GLOW assay, NanoFuel GLOW Assay for Oplophorus Luciferases

Product No.: 325
Manufacturer: Prolume / NanoLight

CAS-no.: N/A
EC-no.:

Other means of identification:

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

Identified uses: life science buffer system

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  GHS08 Health hazard
Signal word Warning
Hazard statement: Carc. 2 H351 suspected of causing cancer
Repr. 2 H361 suspected of damaging fertility or the unborn child

Precautionary statements: Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves/protective clothing/eye protection/face protection.
IF exposed or concerned: Get medical advice/attention.
Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

NFPA ratings (scale 0-4)
Health = 0
Fire = 0
Reactivity = 0

HMIS-ratings (scale 0-4)
Health = 0
Fire = 0
Reactivity = 0

OSHA hazard overview: suspected carcinogen

Primary route(s) of entry: Oral
Target Organs: Not applicable or unknown
Other hazards: Limited evidence of carcinogenic effect
Results of PBT and vPvB assessment: N/A

3. COMPOSTION/INFORMATION ON INGREDIENTS

Substances

Chemical characterization: Mixed compounds in aqueous form

Description: The product is an aqueous liquid with the following hazardous substances mixed in. The exact amount is withheld as part of Prolume Ltd. trade secret.

CAS-number	Component name	Total amount present
62-56-6	Thiourea	<0.5%

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

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. ACCIDENTIAL 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

Absorb with liquid-binding material and dispose contaminated material as waste according to section 13. 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. For maximum shelf life please store at -20°C or below.

8. EXPOSURE CONTROLS – PERSONAL PROTECTION

Components with workplace control parameter
Substance: NLuc GLOW assay

Control parameter: This product doesn't contain any relevant amounts of material that would need monitoring at the workplace.

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: Not required.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	NLuc GLOW assay
Appearance	Clear liquid
Odor	No data available
Odor threshold	No data available
pH	6
Melting point / freezing point	No data available
Boiling point	100°C
Flash point	No data available
Evaporate rate	No data available
Flammability	Not flammable
Explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available

Relative density	No data available
Solubility	Soluble
Partition coefficient: n-octoanol/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

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No dangerous reactions known.

Conditions to avoid: No data available

Materials to avoid: No data available

Hazardous decomposition products: No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Oral LD50 no data available
Inhalation LC50 no data available
Dermal LD50 no data available
Other information on acute toxicity no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: irritating effect

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

Germ cell mutagenicity: no data available

Carcinogenicity

IARC: 62-56-6 Thiourea, Group 3: Not classifiable as to its carcinogenicity to humans.

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: 62-56-6 Thiourea, RAHC – reasonably anticipated to be a human carcinogen.

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: suspected human reproductive toxicant.

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: YU2800000

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. Liver – Irregularities – Based on human evidence.

12. ECOLOGICAL INFORMATION

Toxicity: no information available

Persistence and degradability: no information available

Biodegradation: no information available

Mobility in soil: no information available

Additional ecological information: Water hazard. Do not allow product to reach ground water.

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: not hazardous for transportation
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):
62-56-6 Thiourea

SARA 302: No chemicals were found.

SARA 313: 62-56-6 Thiourea

SARA 311/312 Hazards: No chemicals were found.

California Prop. 65: WARNING! This product contains a chemical known to the State of California to cause cancer. 62-56-6 Thiourea

GHS label elements: The product is classified and labeled according to the Globally Harmonized System (GHS).

Signal word: Warning
Hazard statements: H350 - Suspected of causing cancer.
H360 - Suspected of damaging fertility or the unborn child.

Precautionary statements

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves/protective clothing/eye protection.
If exposed or concerned: Get medical advice/attention.
Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations:
Additional classification: Can cause cancer.

16. OTHER INFORMATION

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

Prepared by: Regulatory Department - Prolume Inc.

 The information provided above is believed to be correct to our best knowledge, 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 appropriate safety precautions. It does not represent any guarantee of the properties of the product.
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

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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