Safety Data Sheet

Neon BL368 linear, lynx, mini lynx, circular, shatterproof (FEP)

Safety Data Sheet dated 28/8/2025, version 2

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Mixture identification:

Trade name: Neon BL368 lineare, lynx, mini lynx, circolare, shatterproof (FEP)

Trade code: P-06011NPH, P-06011SPIN, P-06186SP, P-06029SP, P-06016NASP, P-06062SP, P-06017NASP, P-06018, P-06181SP, P-06132, P-06171SP, P-06129, P-06125SP, P-06011N, P-06011VSP, P-06015SP, P-06016SP, P-06017SP, P-06018SP, P-06019N, P-06020N, P-06023, P-06024, P-06024SP, P-06028SP, P-06054, P-06061, P-06138V, P-06138VSP, P-06025SPP and P-06182

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

Recommended use:

Explosion-proof UV lamps (coated with FEP) to be used in lamps intended for monitoring flying insects.

Uses advised against:

the mixture has to be used for the mentioned application and use.

1.3. Details of the supplier of the safety data sheet

Company:
GEA SRL
Via A. B. Sabin, 31
20019 - Settimo Milanese (MI) - ITALIA
Tel: +39 02 33514890
Fax: +39 02 00665233

Competent person responsible for the safety data sheet:
msds@geaitaly.it

1.4. Emergency telephone number

UK Emergency numbers: 999 or 112

Company emergency telephone number: +39 02 33514890 (available from Monday to Friday from 9 a.m. to 6 p.m., for technical assistance only).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

The product is not classified as hazardous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

The product is not classified as hazardous according to Regulation EC 1272/2008 (CLP).

Hazard pictograms:

None

Hazard statements:

None

Precautionary statements:

None

Special Provisions:

None

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

If the lamps are broken, the following materials may be released:

Component	% by weight	CAS No.	EC No.	EC Classification	
Glass	>90				
Strontium borate, europium-doped	<2	102110-29-2	310-028-8		
Krypton	<0,1	7439-90-9	231-098-5	GHS04	H280 OSHA-H01
Argon	<0,1	7440-37-1	231-147-0	GHS04	H280 OSHA-H01
Mercury	<0,1	7439-97-6	231-106-7	Repr. 1B	H360D
				GHS06	H330
				GHS08	H372
				GHS09	H410
Tungsten	<0,1	7440-33-7	231-143-9		
Metals	<2				
Capping cement	<2				

Coating material:

Chemical Name	Registration No.	CAS No.	EC No.	Concentration
1-Propene, 1,1,2,3,3,3-hexafluoro-, polymer with 1,1,2,2-tetrafluoroethene	N/A	25067-11-2	N/A	100%

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Apply normal first aid for glass cuts if such occur through lamp breakage. If skin contact with hot coating material occurs: Do not attempt to remove molten material. Immediately flush affected area with plenty of cold water and cover with a clean dressing. Have burn treated by a physician.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed

None

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

Treatment:
None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
Use protection measures suitable for surrounding products.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.
Wear protective clothes.
Hazardous decomposition products in fire: silicon dioxide, aluminium oxides, mercury oxides, strontium oxide, boric oxides, europium oxides, metal oxide, tungsten oxides.
Coating does not burn without external fuel source.

5.3. Advice for firefighters

Use suitable breathing apparatus .
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.
Remove persons to safety.
Avoid substance contact. Avoid inhalation of dusts. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, and consult an expert. Wear an appropriate NIOSH/MSHA approved respirator if dust is generated.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Not applicable if lamp is in original state. If lamps are broken: ventilate area where breakage occured. Clear up using special mercury vacuum cleaner or other appropriate agent for preventing vaporisation. Take standard measures for clearing up broken glass and deposit in a lockable container.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Under normal circumstances not applicable. Avoid skin contact with hot material. For industrial or professional use only. Decomposition of FEP products above 230°C may evolve toxic gases and cause a polymer fume fever if inhaled. Processing temperature: < 400°C

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.
Incompatible materials:
None in particular.
Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Glass		No MAC(STEL) has been laid down	
Strontium borate, europium-doped		No MAC(STEL) has been laid down	
Krypton/Argon		No MAC(STEL) has been laid down	
Mercury		TLV:	0.02 mg/m3 (Women in the fertile age: consult the industrial safety officer)
Tungsten		TLV:	5.8 mg/m3 (as inhalable dust)
Metals		No MAC(STEL) has been laid down	
Capping cement		No MAC(STEL) has been laid down	
applicable to: Belgium (20 ºC; 1013 mbar)			
Mercury	S	TLV:	0.025 mg/m3 S (Women in the fertile age: consult the industrial safety officer)
Tungsten		TLV:	5 mg/m3
Tungsten		STEL:	10 mg/m3
applicable to: Germany (20 ºC; 1013 mbar)			
Mercury	S	TLV:	0.1 mg/m3 (Women in the fertile age: consult the industrial safety officer)
Tungsten		TLV:	5 mg/m3 (as inhalable dust)
applicable to: USA (25 ºC; 1013 mbar)			
Krypton/Argon		No MAC(STEL) has been laid down	
Mercury	S	TLV:	0.025 mg/m3 (Women in the fertile age: consult the industrial safety officer)
Tungsten		TLV:	5 mg/m3
Tungsten		STEL:	10 mg/m3
C=Ceiling; S=Skin			

Remarks exposure limits: None.
Odour threshold (20°C; 1013 mbar): not traceable.

8.2. Exposure controls

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Not needed for normal use.

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

Instructions regarding broken lamps

These instructions only apply to broken lamps

Ventilation:

Use both general and local exhaust ventilation to maintain exposure levels below the Long or Short terms limits. If such ventilation is not available use the respirators as specified below.

Respiratory protection:

European Standard EN 149 must be followed whenever workplace conditions warant a respirator´s use.

Eye protection:

The use of safety glasses, goggles or face shields is recommended for handling broken lamps, as described in European Standard EN 166.

Protective clothing:

Wear appropriate protective clothing to prevent skin exposure.

Hygiene:

After handling broken lamps wash thoroughly before eating, handling tobacco products, applying cosmetics or using toilet facilities.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Physical state:	Solid	--	--
Colour:	N.A.	--	--
Odour:	None	--	--
Melting point/freezing point:	> 480°C	--	--
Boiling point or initial boiling point and boiling range:	N.A.	--	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point:	N.A.	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
pH:	N.A.	--	--
Kinematic viscosity:	N.A.	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	N.A.	--	--
Density and/or relative density:	N.A.	--	--
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

9.2. Other information

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

Coating materials react with molten alkali metals and interhalogen compounds. Will burn in atmosphere of 95% oxygen when an ignition source is present

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological information of the product:

Neon BL368 lineare, lynx, mini lynx, circolare, shatterproof (FEP)

a) Acute toxicity

Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation

Not classified

Based on available data, the classification criteria are not met

c) serious eye damage/irritation

Not classified

Based on available data, the classification criteria are not met

d) respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

f) Carcinogenicity

Not classified

Based on available data, the classification criteria are not met

g) Reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure

Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard

Not classified

Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

N.A.

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.
Lamp:

Biological oxygen demand (5)		**not traceable**		
Chemical oxygen demand		**not traceable**		
Biological/chemical oxygen demand ratio		**not traceable**		
Degradability		**not traceable**		
Biochemical factor		**>2500 MERCURY**	**Source**	Supplier
Log Po/w		**4.5 MERCURY**	**Source**	Chemicalcards
Henry Constant		**not traceable**		
Ecotoxicity :				
Mercury	Fish	LC-50: 0.004 mg/l/96H	**Source**	Supplier
Mercury	Daphnia	EC-50: 0.0052 mg/l/48H	**Source**	Supplier
Mercury	Algae	IC-50: 0.3 mg/l/72H	**Source**	Supplier
Remarks on ecotoxicity		none		

Coating:

Acute toxicity		**Time**	**Species**	**Method**	**Evaluation**	**Remarks**
LC50	N/A	96h	Fish	OECD 203	N/A	N/A
EC50	N/A	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

The product is not biodegradable

12.2. Persistence and degradability

N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

All fluorescent lamps contain some amount of mercury. All disposal options should be evaluated with respect to the requirements of the relevant local and national legislation.Before disposing of waste lamps check with state, country, and/or local officials for current guidelines and regulations.

SECTION 14: Transport information

ADR/RID		
	UN-number	2809 MERCURY IN MANUFACTURING ARTICLES
	Class	8 (6.1)
	Packinggroup	
	Transport emergency card	80GC9-III
The product contains less than 1kg of Mercury and is therefore subject to SP366 and exempt from dangerous goods regulation.		
IMO		
	UN-number	2809 MERCURY IN MANUFACTURING ARTICLES
	Class	8 (6.1)
	Packinggroup	
	Marine pollutant	no
IATA/ICAO		
	UN-number	2809 MERCURY IN MANUFACTURING ARTICLES
	Class	8 (6.1)
	Packinggroup	

The product contains less than one gram of mercury. All disposal options must be assessed according to local or national provisions. Before disposing of the neon, check with the competent authorities the appropriate guidelines.

14.1. UN number or ID number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

N.A.

14.3. Transport hazard class(es)

N.A.

14.4. Packing group

N.A.

14.5. Environmental hazards

N.A.

14.6. Special precautions for user

N.A.

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 2020/878
Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)
Regulation (EU) n. 2021/849 (ATP 17 CLP)
Regulation (EU) n. 2022/692 (ATP 18 CLP)
Regulation (EU) n. 2023/707
Regulation (EU) n. 2023/1434 (ATP 19 CLP)
Regulation (EU) n. 2023/1435 (ATP 20 CLP)
Regulation (EU) n. 2024/197 (ATP 21 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

No restriction.

Restrictions related to the substances contained:

No restriction.

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)
Regulation (EC) nr 648/2004 (detergents).
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

N.A.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

Substances for which a Chemical Safety Assessment has been carried out:

None

SECTION 16: Other information

Paragraphs modified from the previous revision:

SECTION 2: Hazards identification
SECTION 9: Physical and chemical properties
SECTION 15: Regulatory information

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.
It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.
This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.