

Safety Data Sheet

Issue date: 02/20/2024

v 1

Last Revision Date: 02/20/2024

1 Identification

- **Product identifier**

- **Trade name: Phazer Neo UV Leak Detection Light**

- **Details of the supplier of the safety data sheet**

CPS Product Inc. - USA

1010 East 31st Street

Hialeah, FL 33013 USA

Phone: (305) 687 - 4121

Email: cs@cpsproducts.com

- **Manufacturer/Supplier:**

CPS Products Inc. - USA

1010 East 31st Street

Hialeah, FL 33013 USA

Tel: (305) 687 - 4121

- **email of person responsible:** cs@cpsproducts.com

- **Emergency telephone number:**

CHEMTREC International +1 (703) 527-3887 (outside the US), 1-800-424-9300 (in the US) 24 hr

2 Hazard(s) identification

- **Classification of the substance or mixture**

Pyrophoric Solids 1

H250 Catches fire spontaneously if exposed to air.

Substances and mixtures which, in contact with water, emit flammable gases 2

H261 In contact with water releases flammable gas.

Acute Toxicity - Oral 4

H302 Harmful if swallowed.

Acute Toxicity - Dermal 3

H311 Toxic in contact with skin.

Sensitization - Skin 1

H317 May cause an allergic skin reaction.

Carcinogenicity 1A

H350 May cause cancer. Route of exposure: Inhalation.

Specific Target Organ Toxicity - Repeated Exposure 1

H372 Causes damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.

Aquatic Chronic 3

H412 Harmful to aquatic life with long lasting effects.

- **Label elements**

- **GHS label elements**

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

- **Hazard pictograms**



- **Signal word** Danger

- **Hazard-determining components of labeling:**

Lithiumhexafluorophosphat(1-)

Lithium cobalt(III) oxide

nickel

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cobalt lithium manganese nickel oxide

· **Hazard statements**

Catches fire spontaneously if exposed to air.

In contact with water releases flammable gas.

Harmful if swallowed.

Toxic in contact with skin.

May cause an allergic skin reaction.

May cause cancer. Route of exposure: Inhalation.

Causes damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.

Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

Obtain special instructions before use.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Do not allow contact with air.

Do not allow contact with water.

Handle under inert gas. Protect from moisture.

Do not breathe fume/spray.

Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Call a poison center/doctor if you feel unwell.

Rinse mouth.

Store locked up.

Store contents under inert gas.

Dispose of contents in accordance with local regulations.

· **Classification system:**· **NFPA ratings (scale 0 - 4)**

Health = 2

Fire = 4

Reactivity = 2

The substance demonstrates unusual reactivity with water.

· **HMIS-ratings (scale 0 - 4)**

Health = *2

Fire = 4

Reactivity = 2

· **Other hazards**· **PBT:** Not applicable.· **vPvB:** Not applicable.**3 Composition/information on ingredients**· **Chemical characterization: Mixtures**· **Chemical components:**

12190-79-3	Lithium cobalt(III) oxide	≥25-≤50%
21324-40-3	Lithiumhexafluorophosphat(1-)	10-25%

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182442-95-1	cobalt lithium manganese nickel oxide	2.5-10%
7440-50-8	copper	2.5-10%
7429-90-5	aluminium	≥2.5-≤10%
7440-02-0	nickel	≥0-≤2.5%
· Other Ingredients		
7782-42-5	Graphite	≥10-≤25%
7440-31-5	tin	≥0-≤10%
9002-88-4	Polyethylene low density	≥0-≤2.5%

4 First-aid measures**· Description of first aid measures****· General information:**

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact: Immediately wash with water and soap and rinse thoroughly.**· After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.

Rinse cautiously with water. Remove contact lenses, if present and easy to do. Get medical attention if eye irritation develops or persists.

· After swallowing: If symptoms persist consult doctor.**· Information for doctor:** Treat Symptomatically**· Most important symptoms and effects, both acute and delayed**

May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. Repeated exposure to this material can result in absorption through skin causing significant health hazard.

See section 11.

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures**· Extinguishing media****· Suitable extinguishing agents:**

Extinguishing powder. Do not use water.

CO₂. Do not use water.

Sand. Do not use water.

Special powder for metal fires. Do not use water.

CO₂, sand, extinguishing powder. Do not use water.

· For safety reasons unsuitable extinguishing agents: Water**· Special hazards arising from the substance or mixture**

During heating or in case of fire poisonous gases are produced.

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- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.

- **Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.
Take precautions to avoid release to the environment. Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

- **Methods and material for containment and cleaning up:**

Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents

- **Reference to other sections**

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

- **Protective Action Criteria for Chemicals**

· PAC-1:		
21324-40-3	Lithiumhexafluorophosphat(1-)	7.5 mg/m ³
7440-50-8	copper	3 mg/m ³
7440-31-5	tin	6 mg/m ³
7440-02-0	nickel	4.5 mg/m ³
9002-88-4	Polyethylene low density	16 mg/m ³
· PAC-2:		
21324-40-3	Lithiumhexafluorophosphat(1-)	83 mg/m ³
7440-50-8	copper	33 mg/m ³
7440-31-5	tin	67 mg/m ³
7440-02-0	nickel	50 mg/m ³
9002-88-4	Polyethylene low density	170 mg/m ³
· PAC-3:		
21324-40-3	Lithiumhexafluorophosphat(1-)	500 mg/m ³
7440-50-8	copper	200 mg/m ³
7440-31-5	tin	400 mg/m ³
7440-02-0	nickel	99 mg/m ³
9002-88-4	Polyethylene low density	1,000 mg/m ³

7 Handling and storage

- **Handling:**

- **Precautions for safe handling**
Thorough dedusting.

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Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

· **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Keep respiratory protective device available.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

See section 10 for incompatible materials.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

7782-42-5 Graphite (10-25%)

PEL	TWA: 15 mppcf* mg/m ³ *impinger samples counted by light field techn.
REL	TWA: 2.5* mg/m ³ *respirable dust
TLV	TWA: 2* mg/m ³ all forms except graphite fibers;*resp. fraction

7440-50-8 copper (2.5-10%)

PEL	TWA: 1* 0.1** mg/m ³ as Cu *dusts and mists **fume
REL	TWA: 1* 0.1** mg/m ³ as Cu *dusts and mists **fume
TLV	TWA: 1* 0.2** mg/m ³ *dusts and mists; **fume; as Cu

7429-90-5 aluminium (2.5-10%)

PEL	TWA: 15*; 5** mg/m ³ *Total dust; ** Respirable fraction
REL	TWA: 10* 5** mg/m ³ as Al*Total dust**Respirable/pyro powd./welding f.
TLV	TWA: 1* mg/m ³ as Al; *as respirable fraction, A4

7440-31-5 tin (2.5-10%)

PEL	TWA: 2 mg/m ³ metal
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REL	TWA: 2 mg/m ³
TLV	TWA: 2* mg/m ³ metal, *inh. fraction

7440-02-0 nickel (≤2.5%)

PEL	TWA: 1 mg/m ³
REL	TWA: 0.015 mg/m ³ as Ni; See Pocket Guide App. A
TLV	TWA: 1.5* mg/m ³ elemental, *inhalable fraction, A5, BEI

· Ingredients with biological limit values:**7440-02-0 nickel (≤2.5%)**

BEI	5 µg/L Medium: urine Time: post-shift at end of workweek Parameter: Nickel (background)
	30 µg/L Medium: urine Time: post-shift at end of workweek Parameter: Nickel (background)

· **Additional information:** The lists that were valid during the creation were used as basis.

· Exposure controls**· Personal protective equipment:****· General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Store protective clothing separately.
- Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:

ISO 374-1:2016/Type A
JKLMNO

Chemical resistant protective gloves

· Eye protection:

Safety glasses. If potential for splash or mist exists, wear chemical goggles or faceshield.

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9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

· Form:

Solid

· Color:

According to product specification

· Odor:

Characteristic

· Odor threshold:

Not determined.

· pH-value:

Not applicable.

· Change in condition

· Melting point/Melting range:

Undetermined.

· Boiling point/Boiling range:

2,500 °C

· Flash point:

Not applicable.

· Flammability (solid, gaseous):

Contact with water liberates extremely flammable gases.

· Auto igniting:

100 °C

· Decomposition temperature:

Not determined.

· Ignition temperature:

Spontaneously flammable in air.

· Danger of explosion:

Not determined.

· Explosion limits:

· Lower:

Not determined.

· Upper:

Not determined.

· Vapor pressure:

Not applicable.

· Density:

Not determined.

· Relative density

Not determined.

· Vapor density

Not applicable.

· Evaporation rate

Not applicable.

· Solubility in / Miscibility with

· Water:

Soluble.

· Partition coefficient (n-octanol/water):

Not determined.

· Viscosity:

· Dynamic:

Not applicable.

· Kinematic:

Not applicable.

· Solvent separation test

· VOC content:

0.00 %

· Other information

No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.

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- **Chemical stability**
 - **Thermal decomposition / conditions to be avoided:** non determined
- **Possibility of hazardous reactions** Contact with water releases flammable gases.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.

11 Toxicological information· **Information on toxicological effects**· **Acute toxicity:**· **LD/LC50 values that are relevant for classification:****ATE (Acute Toxicity Estimate)**

Oral	LD50	<625 mg/kg
Dermal	LD50	<313 mg/kg

21324-40-3 Lithiumhexafluorophosphat(1-)

Oral	LD50	100 mg/kg (ATE)
Dermal	LD50	50 mg/kg (ATE)

· **Primary irritant effect:**· **on the skin:**

May cause mild skin irritation. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis.

· **on the eye:** May cause eye irritation.· **Sensitization:** Sensitization possible through skin contact.· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Toxic

Harmful

Irritant

· **Carcinogenic categories**· **IARC (International Agency for Research on Cancer)**

12190-79-3	Lithium cobalt(III) oxide	2B
182442-95-1	cobalt lithium manganese nickel oxide	1
7440-02-0	nickel	2B
9002-88-4	Polyethylene low density	3

· **NTP (National Toxicology Program)**

182442-95-1	cobalt lithium manganese nickel oxide	K
7440-02-0	nickel	R

12 Ecological information· **Toxicity**

- **Aquatic toxicity:** Harmful to aquatic life with long lasting effects.
- **Persistence and degradability** No further relevant information available.

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- **Behavior in environmental systems:**
 - **Bioaccumulative potential** Not expected to bio-accumulate.
 - **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
 - **Remark:** Harmful to fish
- **Additional ecological information:**
 - **General notes:**
 - Water hazard class 3 (Self-assessment): extremely hazardous for water
 - Do not allow product to reach ground water, water course or sewage system, even in small quantities.
 - Danger to drinking water if even extremely small quantities leak into the ground.
 - Harmful to aquatic organisms
- **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
- **Other adverse effects** Avoid release to the environment.

13 Disposal considerations

- **Waste treatment methods**
 - **Recommendation:**
 - Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
 - **Recommendation:** Disposal must be made according to official regulations.
 - **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- | | |
|---|--|
| · UN-Number | |
| · DOT, ADR, IMDG, IATA | UN3134 |
| · UN proper shipping name | |
| · DOT | Water-reactive solid, toxic, n.o.s. (Aluminum powder, cobalt lithium manganese nickel oxide, Lithiumhexafluorophosphat(1-)) |
| · IMDG, IATA | WATER-REACTIVE SOLID, TOXIC, N.O.S. (ALUMINIUM POWDER, cobalt lithium manganese nickel oxide, Lithiumhexafluorophosphat(1-)) |
| · Transport hazard class(es) | |
| · DOT | |
|   | |
| · Class | 4.3 Substances which, in contact with water, emit flammable gases |

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· Label	4.3, 6.1
· IMDG	
	
· Class	4.3 Substances which, in contact with water, emit flammable gases
· Label	4.3/6.1
· IATA	
	
· Class	4.3 Substances which, in contact with water, emit flammable gases
· Label	4.3 (6.1)
· Packing group	
· DOT, IMDG, IATA	II
· Environmental hazards:	Not applicable.
· Special precautions for user	Warning: Substances which, in contact with water, emit flammable gases
· Hazard identification number (Kemler code):	469
· EMS Number:	F-G,S-N
· Segregation groups	(SGG15) Powdered metals
· Stowage Category	E
· Stowage Code	SW5 If under deck, stow in a mechanically ventilated space.
· Handling Code	H1 Keep as dry as reasonably practicable
· Segregation Code	SG26 In addition: from goods of classes 2.1 and 3 when stowed on deck of a containership a minimum distance of two container spaces athwartship shall be maintained, when stowed on ro-ro ships a distance of 6 m athwartship shall be maintained.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 15 kg On cargo aircraft only: 50 kg
· IMDG	
· Limited quantities (LQ)	500 g
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 g

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Maximum net quantity per outer packaging: 500 g

· **UN "Model Regulation":** UN 3134 WATER-REACTIVE SOLID, TOXIC, N.O.S. (ALUMINIUM POWDER, COBALT LITHIUM MANGANESE NICKEL OXIDE, LITHIUMHEXAFLUOROPHOSPHAT(1-)), 4.3 (6.1), II

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
 No REACH Annex XVII restrictions
 Contains no REACH candidate substance

· Sara

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

12190-79-3	Lithium cobalt(III) oxide
182442-95-1	cobalt lithium manganese nickel oxide
7440-50-8	copper
7429-90-5	aluminium
7440-02-0	nickel

· **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

· **Hazardous Air Pollutants**

12190-79-3	Lithium cobalt(III) oxide
182442-95-1	cobalt lithium manganese nickel oxide

· **Proposition 65**· **Chemicals known to cause cancer:**

182442-95-1	cobalt lithium manganese nickel oxide
7440-02-0	nickel

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**· **EPA (Environmental Protection Agency)**

7440-50-8	copper	D
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· TLV (Threshold Limit Value)		
7429-90-5	aluminium	A4
7440-02-0	nickel	A5
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
182442-95-1	cobalt lithium manganese nickel oxide	
7440-02-0	nickel	

· **National regulations:**· **Additional classification according to Decree on Hazardous Materials:**

Carcinogenic hazardous material group III (dangerous).

· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Contact:** Engineering Department· **Issue Date** 02/20/2024· **Abbreviations and acronyms:**

ADR: Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

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

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Pyrophoric Solids 1: Pyrophoric solids – Category 1

Substances and mixtures which, in contact with water, emit flammable gases 2: Substances and mixtures which in contact with water emit flammable gases – Category 2

Acute Toxicity - Oral 4: Acute toxicity – Category 4

Acute Toxicity - Dermal 3: Acute toxicity – Category 3

Sensitization - Skin 1: Skin sensitisation – Category 1

Carcinogenicity 1A: Carcinogenicity – Category 1A

Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3