

## KODAK Light Devices

### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 25/JUL/2023 Version: 1.0

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

##### 1.1. Product identifier

Product form : Article  
Product name : KODAK LED Active Headlamp 350

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

###### 1.2.1. Relevant identified uses

Consumer lighting device intended for general public.  
Uses advised against: No additional information available

###### 1.2.2. Uses advised against

No additional information available

##### 1.3. Details of the supplier of the safety data sheet

Strand International GmbH  
Zum Schlahn 32  
51709 Marienheide  
Deutschland  
T +44 (0) 1252 861000  
[sales@strandeurope.com](mailto:sales@strandeurope.com)

##### 1.4. Emergency telephone number

Emergency number : For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night 1-800-424-9300 / +1 703-527-3887

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification according to Regulation (EC) No. 1272/2008 [CLP]

This product is an article within the definition of UK and EU REACH and CLP Regulations. Classification and labelling and the provision of an SDS is not required, but this document contains information and advice concerning safe handling of the product.

Chemical components are contained within the article to prevent release during normal transport, storage and use. Contact with chemical content is not foreseen during normal use.

##### 2.2. Label elements

Pictogram	None.
Signal word	None.
Hazard statements	None.
Precautionary statements	None.

##### 2.3. Other hazards

Exposure to fire, or mechanical or electrical stress may cause failure of the container and release of chemical components. Strong heating may lead to fire and production of irritating or harmful gas.

The chemical components cause irritation of the skin and eyes. Harmful if swallowed. May cause skin sensitisation. May damage fertility or the unborn child. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.

This document gives advice on hazards relating to the chemical components of the article. The user is advised that additional hazards may be present from handling the product. See instructions for use.

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#### SECTION 3: Composition/information on ingredients

##### 3.1. Substances

Not applicable

##### 3.2. Mixtures

Declarable components	Product identifier	%	Classification, supplemental hazards, ATE, M-factor, and SCL
Not applicable to article	N/A	N/A	N/A
<b>Other components</b>			
Lithium Cobalt Oxide	CAS-No.: 12190-79-3 EC-No.: 235-362-0	≥ 25 – < 50	Repr 1B, H360Fd
Lithium hexafluorophosphate (LiPF <sub>6</sub> )	CAS-No.: 21324-40-3 EC-No.: 244-334-7	≥ 10 – < 30	Acute Tox 3, H301; Skin Corr 1A, H314; Eye Dam 1, H318; STOT RE 1, H372 (bones, teeth)
Copper (Cu)	CAS-No.: 7440-50-8 EC-No.: 231-159-6	≥ 5 – < 15	Aquatic Acute 1, H400 (M = 1); Aquatic Chronic 2, H411
Nickel	CAS-No.: 7440-02-0 EC-No.: 231-111-4	≥ 1 – < 5	Skin Sens 1, H317; Carc 2, H351; STOT RE 1, H372 (inhalation, respiratory tract); Aquatic Chronic 3, H412

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

Inhalation	Product as supplied not inhalable. For inhalation of chemical contents, remove exposed person to fresh air and keep warm and at rest in a position comfortable for breathing. For difficulties in breathing, respiratory irritation, or other symptoms, call a poison centre or doctor.
Skin	Product as supplied not harmful to skin. For skin contact with chemicals, wash affected area with soap and water. Call a doctor if irritation, rash, or other symptoms occur.
Eye	Product as supplied not harmful to eyes. In case of contact of chemicals in eyes, immediately rinse with room-temperature water or eyewash for several minutes. Speed is essential. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor.
Ingestion	If chemicals are in mouth, rinse mouth thoroughly with water and spit out rinsings. Water may be given to drink if chemicals have been swallowed. Get immediate medical attention. Do not induce vomiting, unless instructed by medical personnel.

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

The chemical components cause eye damage and skin corrosion. May cause skin sensitisation. May damage fertility or the unborn child. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

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

Treat symptomatically.

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#### SECTION 5: Firefighting measures

##### 5.1. Extinguishing media

- Suitable extinguishing media : A standard ABC or dry chemical fire extinguisher is recommended.
- Unsuitable extinguishing media : Using water or foam on damaged product may result in reaction to produce toxic and corrosive hydrogen fluoride. Using excess water will dilute the hydrogen fluoride and reduce its hazards.

##### 5.2. Special hazards arising from the substance or mixture

The product contains lithium battery materials, which may ignite if heated. Toxic, corrosive gas (hydrogen fluoride) may be emitted during fire or in contact with water.

##### 5.3. Advice for firefighters

Remove product from fire or cool containers with water spray. Firefighters should wear self-contained breathing apparatus and full protective clothing.

#### SECTION 6: Accidental release measures

##### 6.1. Personal precautions, protective equipment and emergency procedures

Product articles may be collected if undamaged.

For chemical spills of the contents, wear personal protection. Ventilate area and do not breathe vapours. Remove or extinguish sources of ignition.

Follow prescribed procedures for responding to spills and reporting to authorities.

##### 6.2. Environmental precautions

Prevent product from entering water courses or drainage system.

##### 6.3. Methods and material for containment and cleaning up

Clean up spill as soon as possible. Do not flush to sewer.

For small quantities, wipe off with damp cloth or paper.

For larger quantities, absorb with inert material and carefully sweep up or collect using vacuum cleaner.

Wash contaminated surfaces with water and detergent. Collect waste, washings, and contaminated materials for safe disposal.

##### 6.4. Reference to other sections

For recommended personal protective equipment, see Section 8.

For disposal considerations, see Section 13.

#### SECTION 7: Handling and storage

##### 7.1. Precautions for safe handling

Avoid damaging the product. Do not immerse in water or other liquid. Keep away from fire and strong heat. Do not disassemble the product. Strong heating may lead to fire and production of irritating or harmful gas.

Avoid skin and eye contact with the chemical content of the product, and inhalation of vapours. Ventilate area if exposure to chemicals is possible.

See Section 8 for personal protection.

Wash hands after contact with chemicals.

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#### 7.2. Conditions for safe storage, including any incompatibilities

Store product in a cool, dry place.

#### 7.3. Specific end use(s)

Consumer lighting device.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

EU limit values	Hydrogen fluoride: IOELV: 8 h TWA, 1.5 mg/m <sup>3</sup> (1.8 ppm); 15 min, 2.5 mg/m <sup>3</sup> (3 ppm).
National limit values	UK:  Cobalt and cobalt compounds (as Co): WEL: 8 h TWA 0.1 mg/m <sup>3</sup> (capable of causing occupational asthma).  Copper and compounds: dust and mists (as Cu): WEL: 8 h TWA 1 mg/m <sup>3</sup> ; 15 min 2 mg/m <sup>3</sup> .  Nickel and its inorganic compounds (except nickel tetracarbonyl): nickel and water-insoluble nickel compounds (as Ni): WEL: 8 h TWA 0.5 mg/m <sup>3</sup> .  Hydrogen fluoride (as F): WEL: 8 h TWA, 1.5 mg/m <sup>3</sup> (1.8 ppm); 15 min, 2.5 mg/m <sup>3</sup> (3 ppm).  Germany:  Cobalt and cobalt compounds (inhalable fraction): AGS: 8 h TWA, 0.005 mg/m <sup>3</sup> ; 15 min, 0.04 mg/m <sup>3</sup> .  Copper, dusts and mists (as Cu) (respirable fraction) (DFG): 8 h TWA, 0.01 mg/m <sup>3</sup> ; 15 min 0.02 mg/m <sup>3</sup> .  Nickel, metal and compounds (inhalable fraction) (AGS): 8 h TWA, 0.03 mg/m <sup>3</sup> ; 15 min, 0.24 mg/m <sup>3</sup> .  Hydrogen fluoride: AGS: 8 h TWA, 0.83 mg/m <sup>3</sup> (1 ppm); 15 min, 1.66 mg/m <sup>3</sup> (2 ppm) (ceiling) (skin). DFG: 8 h TWA, 0.83 mg/m <sup>3</sup> (1 ppm); 15 min, 1.66 mg/m <sup>3</sup> (2 ppm) (ceiling).

##### 8.1.2. Recommended monitoring procedures

BS EN 14042:2003; Workplace Atmospheres; Guide for the Application and Use of Procedures for the Assessment of Exposure to Chemical and Biological Agents, or specific national equivalent.

##### 8.1.3. Air contaminants formed

No additional information available

##### 8.1.4. DNEL and PNEC

LIPF6: DNELs: worker, long-term exposure, systemic effects, dermal, 0.133 mg/kg/day; worker, long-term exposure, systemic effects, inhalation, 0.931 mg/m<sup>3</sup>.

LIPF6: PNECs: freshwater, 0.31 mg/L; intermittent release, 0.68 mg/L; sewage treatment plant, 48 mg/L; freshwater sediment, 7.73 mg/kg dry sediment; soil, 13.5 mg/kg dry soil.

##### 8.1.5. Control banding

No additional information available

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#### 8.2. Exposure controls

##### 8.2.1. Appropriate engineering controls

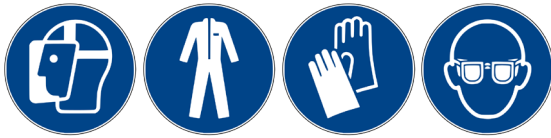
For chemical exposure in the workplace, good general ventilation (3-5 air exchanges per hour), local exhaust ventilation, or use in a closed system is recommended.

##### 8.2.2. Personal protection equipment

The need for personal protective equipment should be based on a workplace risk assessment for the particular use.

For contact with chemicals, wear chemical-resistant gloves and eye protection. Where more extensive contact may occur, wear protective clothing (eg apron, overalls). PPE should conform to British (EN) standards, eg gloves EN 420 and 374; eye protection EN 166, or other national equivalent. Consult PPE manufacturers concerning breakthrough times applicable to your particular use.

##### Personal protective equipment symbol(s):



##### 8.2.3. Environmental exposure controls

No additional information available

#### SECTION 9: Physical and chemical properties

##### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: Mixed
Odour	: Odourless.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Non flammable.
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not applicable to solid
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
pH solution	: Not available
Viscosity, kinematic	: Not applicable to solid
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle size	: Not available
Particle size distribution	: Not available
Particle shape	: Not available
Particle aspect ratio	: Not available
Particle aggregation state	: Not available
Particle agglomeration state	: Not available
Particle specific surface area	: Not available

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Particle dustiness : Not available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable under recommended storage and handling conditions.

#### 10.3. Possibility of hazardous reactions

Hazardous chemicals may leak from damaged product.

#### 10.4. Conditions to avoid

Avoid damaging product with mechanical or electrical stress. Do not heat during use or storage. Strong heating may lead to fire and production of irritating or harmful gas.

#### 10.5. Incompatible materials

Avoid immersion in water or other liquid.

#### 10.6. Hazardous decomposition products

A chemical component may decompose on heating or react with water to form hydrogen fluoride gas (toxic, corrosive).

### SECTION 11: Toxicological information

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

Acute toxicity	: Not applicable to consumer lighting device. Chemical components are toxic or harmful if swallowed. A chemical component may decompose on heating or react with water to form hydrogen fluoride gas (toxic, corrosive).
Skin corrosion/irritation	: Not applicable to consumer lighting device. A chemical component may cause corrosion of skin.
Serious eye damage/irritation	: Not applicable to consumer lighting device. A chemical component may cause serious eye damage.
Respiratory or skin sensitisation	: Not applicable to consumer lighting device. A chemical component may cause skin sensitisation or asthma.
Germ cell mutagenicity	: Not applicable to consumer lighting device. No relevant chemical component has been identified with this effect.
Carcinogenicity	: Not applicable to consumer lighting device. A chemical component is suspected of causing cancer.
Reproductive toxicity	: Not applicable to consumer lighting device. A chemical component may damage fertility and is suspected of damaging the unborn child.
STOT-single exposure	: Not applicable to consumer lighting device. Chemical vapour may irritate the respiratory tract.
STOT-repeated exposure	: Not applicable to consumer lighting device. Chemical vapour may irritate the respiratory tract.
Aspiration hazard	: Not applicable to consumer lighting device.

#### 11.2. Information on other hazards

No relevant chemical component has been identified with endocrine disruptor effects.

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#### SECTION 12: Ecological information

##### 12.1. Toxicity

The consumer lighting device contains chemical component that are very toxic to aquatic life with long lasting effects.

##### 12.2. Persistence and degradability

Consumer lighting device will persist in the environment

##### 12.3. Bioaccumulative potential

Not applicable to consumer lighting device

##### 12.4. Mobility in soil

No additional information available

##### 12.5. Results of PBT and vPvB assessment

No chemical component has been identified with these effects.

##### 12.6. Endocrine disrupting properties

No chemical component has been identified with these effects.

##### 12.7. Other adverse effects

No chemical component has been identified as hazardous to the ozone layer.

#### SECTION 13: Disposal considerations






##### 13.1. Waste treatment methods

The usual method of disposal of consumer lighting device is via a recycling site. Disposal via landfill, drains, or incineration is not recommended.

Disposal must be in accordance with current national and local regulations, eg UK Waste Electrical and Electronic Equipment recycling (WEEE Regulations 2006) (EU Directive 2012/19/EU) (as amended).

General EU requirements for waste chemicals are given in Directive 2008/98/EC

#### SECTION 14: Transport information

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
UN 3481	UN 3481	UN 3481	UN 3481	UN 3481
<b>14.2. UN proper shipping name</b>				
LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT	LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT	Lithium ion batteries contained in equipment	LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT	LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT
<b>14.3. Transport hazard class(es)</b>				
9A	9	9A	9A	9A
				

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ADR	IMDG	IATA	ADN	RID
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR)	: M4
Special provisions (ADR)	: 188, 230, 310, 348, 360, 376, 377, 387, 390, 670
Limited quantities (ADR)	: 0
Excepted quantities (ADR)	: E0
Packing instructions (ADR)	: P903, P908, P909, P910, P911, LP903, LP904, LP905, LP906
Transport category (ADR)	: 2
Tunnel restriction code (ADR)	: E
EAC code	: 2Y

#### Transport by sea

Special provisions (IMDG)	: 188, 230, 310, 348, 360, 376, 377, 384, 387
Limited quantities (IMDG)	: 0
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P903, P908, P909, P910, P911, LP903, LP904, LP905, LP906
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-I
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW19
Properties and observations (IMDG)	: Electrical batteries containing lithium ion encased in a rigid metallic body. Lithium ion batteries may also be shipped in, or packed with, equipment. Electrical lithium batteries may cause fire due to an explosive rupture of the body caused by improper construction or reaction with contaminants.

#### Air transport

PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Forbidden
PCA limited quantity max net quantity (IATA)	: Forbidden
PCA packing instructions (IATA)	: 967
PCA max net quantity (IATA)	: 5kg
CAO packing instructions (IATA)	: 967
CAO max net quantity (IATA)	: 35kg
Special provisions (IATA)	: A48, A88, A99, A154, A164, A181, A185, A206, A213, A220
ERG code (IATA)	: 12FZ

#### Inland waterway transport

Classification code (ADN)	: M4
Special provisions (ADN)	: 188, 230, 310, 348, 360, 376, 377, 387, 390, 670
Limited quantities (ADN)	: 0
Excepted quantities (ADN)	: E0
Equipment required (ADN)	: PP
Number of blue cones/lights (ADN)	: 0



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#### Rail transport

Classification code (RID)	: M4
Special provisions (RID)	: 188, 230, 310, 348, 360, _376, 377, 387, 390, 670
Limited quantities (RID)	: 0
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P903, 908, 909, P910, P911, LP903, LP904, LP905, LP906
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE2
Hazard identification number (RID)	: 90

#### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

### SECTION 15: Regulatory information

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

UK: Control of Substances Hazardous to Health Regulations 2002 (COSHH), as amended.  
COSHH Essentials: Easy Steps to Control Chemicals; HSE Books 2003 (also available on the HSE web site).  
WEEE Regulations 2013; Government Guidance Notes; March 2014.

Germany: WGK (Wassergefährdungsklassen) Regulation: Verwaltungsvorschrift wassergefährdende Stoffe (VwVwS), designating water hazard classes. Not applicable to article. Contains copper with WGK, 2 (ID 9696).

Technische Regeln für Gefahrstoffe (TRGS) 900; Arbeitsplatzgrenzwerte (AGW).

Chemicals Act: Gesetz zum Schutz vor gefährlichen Stoffen (Chemikaliengesetz - Chem G).

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### SECTION 16: Other information

Revisions	This SDS is the first version (1.0) in EU format (Regulation 2020/878), using classification according to the CLP Regulation.
Abbreviations	ATE, acute toxicity estimate; DMEL, derived minimum effect level; DNEL, derived no-effect level; IOELV, EU indicative occupational exposure limit value; PBT, persistent, bioaccumulative, and toxic; PNEC, predicted no-effect concentration; STOT RE, specific target organ toxicity, repeated exposure; STOT SE, specific target organ toxicity, single exposure; TWA, time-weighted average; WEL, UK workplace exposure limit; vPvB, very persistent, very bioaccumulative.
References	Search for chemicals; available at the European Chemicals Agency (ECHA) website: <a href="http://echa.europa.eu/">http://echa.europa.eu/</a> .  GESTIS International Limit Values; Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (IFA); <a href="http://www.dguv.de">http://www.dguv.de</a> .
Basis of classification	Classification is not applicable to an article.
List of hazard statements	H301: Toxic if swallowed; H314: Causes severe skin burns and eye damage; H317: May cause an allergic skin reaction; H318: Causes serious eye damage; H351: Suspected of causing cancer; H372: Causes damage to organs through prolonged or repeated exposure; H400: Very toxic to aquatic life; H411: Toxic to aquatic life with long lasting effects; H412: Harmful to aquatic life with long lasting effects.

Safety Data Sheet (SDS), EU

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.