

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. PRODUCT IDENTIFIERS

PRODUCT NAME

CHEMICAL NAME

CAS no.

10101-63-0

EC no.

INDEX no.

Lead iodide

10101-63-0

n/a

n/a

REACH REGISTRATION no. not applicable

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

IDENTIFIED USES Laboratory chemicals, Manufacture of substances

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

COMPANY IDENTIFICATION

ADDRESS OF SUPPLIER

Noctilua S.A.

Noctilua S.A.

Jurija Gagarina 7/41B

87-100 TORUN POLAND

TELEPHONE +48 56 646 19 63
E-MAIL office@noctiluca.eu

OFFICE HOURS 8:00 – 16:00 (Warsaw time)

1.4. EMERGENCY TELEPHONE NUMBER

EUROPE 112 or 999

ASIA 110 (China, Japan, Taiwan), 119

NORTH AMERICA 911 SOUTH AMERICA 911

AFRICA As appropriate for your country AUSTRALIA 000 (Australia), 111 (New Zealand)

SECTION 2: HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE/MIXTURE

Regulation (EC) No. 1272/2008 (CLP) H302: Harmful if swallowed.

H332: Harmful if inhaled.

H360Df: May damage the unborn child.

H373: May cause damage to organs through prolonged or

repeated exposure.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

2.2. LABEL ELEMENTS

According to Regulation (EC) No. 1272/2008 (CLP

PRODUCT NAME Lead iodide

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HAZARD PICTOGRAMS

SIGNAL WORDS

Danger HAZARD STATEMENTS H302: Harmful if swallowed.

H332: Harmful if inhaled.

H360Df: May damage the unborn child.

H373: May cause damage to organs through prolonged or repeated

exposure.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS P202 Do not handle until all safety precautions have been read and

understood.

P260 Do not breathe dust.

P273 Avoid release to the environment.

P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel

unwell.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep

comfortable

for breathing. Call a POISON CENTER/doctor if you feel unwell. P308 + P313 IF exposed or concerned: Get medical advice/attention.

2.3. OTHER HAZARDS

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

2.4. ADDITIONAL INFORMATION

not applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. SUBSTANCES

Lead iodide CHEMICAL NAME

SYNONYMS Plumbous iodide

CHEMICAL FORMULA Pb₁₂

MOLECULAR WEIGHT 461.01 g/mol

3.2. MIXTURES

not applicable

SECTION 4: FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

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GENERAL ADVICE Consult a physician. Show this material safety data

sheet to the doctor in attendance.

INHALATION Fresh air. Immediately call in physician. If breathing

stops: immediately apply artificial respiration, if

necessary also oxygen

SKIN CONTACT Take off immediately all contaminated clothing.

Rinse skin with water/ shower. Consult a physician. After eye contact: rinse out with plenty of water. Call

in ophthalmologist. Remove contact lenses.

INGESTION immediately make victim drink water (two glasses at

most). Consult a physician.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

The most important known symptoms and impacts are outlined in the labelling (see section 2.2) and/or in section 11.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

not applicable

EYE CONTACT

SECTION 5: FIREFIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING MEDIA

Use extinguishing measures that are appropriate to

local circumstances and the surrounding

environment.

UNSUITABLE EXTINGUISHING MEDIA For this substance/mixture no limitations of

extinguishing agents are given

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Hydrogen iodide Lead oxides Not combustible.

Ambient fire may liberate hazardous vapours.

5.3. ADVICE FOR FIREFIGHTERS

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4. FURTHER INFORMATION

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Follow safe handling advice and personal protective equipment recommendations (as per section 8). Provide adequate ventilation.

6.2. ENVIRONMENTAL PRECAUTIONS

Avoid release to the environment. Do not let product enter drains.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

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Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4. REFERENCE TO OTHER SECTIONS

For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

ADVICE ON SAFE HANDLING

HYGIENE MEASURES

Work under hood. Do not inhale substance/mixture. Immediately change contaminated clothing. Apply

preventive skin protection. Wash hands

and face after working with substance. For

precautions see section 2.2.

FIRE PROTECTION Normal measures for preventive fire protection.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

GENERAL Tightly closed. Dry. Keep in a well-ventilated place.

Keep locked up or in an area accessible only to

qualified or authorized persons. Light sensitive.

STORAGE TEMPERATURE Ambie

STORAGE LIFE Storage class (TRGS 510): 6.1C: Combustible, acute

toxic Cat.3 / toxic compounds or compounds which

causing chronic effects

INCOMPATIBLE MATERIALS Not known

7.3. SPECIFIC END USE(S)

Apart from the uses mentioned in section 1.2 no other specific uses are specified.

SECTION 8: EXPOSURE CONTOLS/PERSONAL PROTECION

8.1. CONTROL PARAMETERS

8.1.1. OCCUPATIONAL EXPOSURE LIMITS

No Occupational Exposure Limit assigned.

8.2. EXPOSURE CONTROLS

8.2.1. APPROPRIATE ENGINEERING CONTROLS

Make certain that there is sufficient ventilation and/or exhaust. Ensure that there is a washing facility with water available to cleanse the eyes and skin.

8.2.2. PERSONAL PROTECTION EQUIPMENT

EYE/FACE PROTECTION Use equipment for eye protection tested and

approved under appropriate government standards

such as NIOSH (US) or EN 166(EU). Safety glasses

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with

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HAND PROTECTION

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other substances and under conditions deviating

from those stated in EN 16523-1.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KOL 741 Dermatril® L

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L

BODY PROTECTION Select appropriate body protection depending on

the type, concentration, and quantity of hazardous

substances and workplace conditions. required when dusts are generated.

Our recommendations on filtering respiratory

protection are based on the following

standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P3 The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

Not known

THERMAL HAZARDS

RESPIRATORY PROTECTION

8.2.3. ENVIRONMENTAL EXPOSURE CONTROLS

Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE solid
COLOUR yellow
ODOUR n/a
ODOUR THRESHOLD n/a

MELTING POINT/FREEZING POINT Melting point/range: 402 °C - lit

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 (°C) n/a **DECOMPOSITION TEMPERATURE** n/a n/a KINEMATIC VISCOSITY n/a SOLUBILITY(IES) n/a PARTITION COEFFICIENT: N-OCTANOL/WATER (LOG n/a

VALUE)

VAPOUR PRESSURE1 hPa at 479 °CDENSITY6,16 g/mL at 25 °C - lit.

RELATIVE DENSITY n/a
RELATIVE VAPOUR DENSITY n/a
PARTICLE CHARACTERISTICS n/a

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9.2. OTHER INFORMATION

n/a

SECTION 10: STABILITY AND REACTIVITY

10.1. REACTIVITY

None anticipated.

10.2. CHEMICAL STABILITY

The product is chemically stable under recommended storage conditions.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

n/a

10.4. CONDITIONS TO AVOID

n/a

10.5. INCOMPATIBLE MATERIALS

Strong oxidizing agents

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

In case of fire: see SECTION 5.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY - INGESTION Oral: No data available

LD50 Oral - 500,1 mg/kg

LC50 Inhalation - 4 h - 1,5 mg/l - dust/mist

Dermal: No data available

ACUTE TOXICITY - SKIN CONTACT n/a **ACUTE TOXICITY - INHALATION** n/a SKIN CORROSION/IRRITATION n/a SERIOUS EYE DAMAGE/IRRITATION n/a SKIN SENSITIZATION DATA n/a RESPIRATORY SENSITIZATION DATA n/a GERM CELL MUTAGENICITY n/a n/a CARCINOGENICITY

REPRODUCTIVE TOXICITY

May cause congenital malformation in the fetus.

Known human reproductive toxicant

LACTATION n/a STOT - SINGLE EXPOSURE n/a

STOT – REPEATED EXPOSURE May cause damage to organs through prolonged or

repeated exposure.

ASPIRATION HAZARD n/a

11.2. INFORMATION ON OTHER HAZARDS

n/a

11.2.1. ENDOCRINE DISRUPTING PROPERTIES

n/a

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11.2.2. INFORMATION ON OTHER HAZARDS

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher anemia, Prolonged exposure to iodides may produce iodism in sensitive individuals. Symptoms of exposure include: skin rash, running nose, headache and irritation of the mucous membrane. For severe cases the skin may show pimples, boils, hives, blisters and black and blue spots. lodides are readily diffused across the placenta. Neonatal deaths from respiratory distress secondary to goiter have been reported. lodides have been known to cause drug-induced fevers, which are usually of short duration., Lead salts have been reported to cross the placenta and to induce embryo- and feto- mortality. They also have teratogenic effect in some animal species. No teratogenic effects have been reported with exposure to organometallic lead compounds. Adverse effects of lead on human reproduction, embryonic and fetal development, and postnatal (e.g., mental) development have been reported. Excessive exposure can affect blood, nervous, and digestive systems. The synthesis of hemoglobin is inhibited and results in anemia. If left untreated, neuromuscular dysfunction, possible paralysis, and encephalopathy can result. Additional symptoms of overexposure include: joint and muscle pain, weakness of the extensor muscles (frequently the hand and wrist), headache, dizziness, abdominal pain, diarrhea, constipation, nausea, vomiting, blue line on the gums, insomnia, and metallic taste. High body levels produce increased cerebrospinal pressure, brain damage, and stupor leading to coma and often death

SECTION 12: ECOLOGICAL INFORMATION

12.1. TOXICITY

TOXICITY - AQUATIC INVERTEBRATES n/a
TOXICITY - FISH n/a
TOXICITY - ALGAE n/a

TOXICITY - SEDIMENT COMPARTMENT not classified TOXICITY - TERRESTRIAL COMPARTMENT not classified

12.2. PERSISTENCE AND DEGRADATION

n/a

12.3. BIOACCUMULATIVE POTENTIAL

n/a

12.4. MOBILITY IN SOIL

n/a

12.5. RESULTS OF PBT AND VPVB ASSESMENT

This substance/mixture contains no components considered either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. ENDOCRINE DISRUPTING PROPERTIES

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

12.7. OTHER ADVERSE EFFECTS

n/a

SECTION 13: DISPOSAL CONSIDERATIONS

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13.1. WASTE TREATMENT METHODS

Dispose of the product in accordance with the regulations of the local, state or national authorities. Recycling should be carried out only for fully emptied packaging. The recommended method for disposal is through incineration managed by a licensed disposal contractor. Alternatively, send the product to a licensed recycler, reclaimer or incinerator.

13.2. ADDITIONAL INFORMATION

Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

1	4 1	ı	IN	ΙN	LIN	ИR	FR

ADR/RID 2291 IMDG 2291 IATA 2291

14.2. UN PROPER SHIPPING NAME

ADR/RID

LEAD COMPOUND, SOLUBLE, N.O.S. (Lead diiodide)

IMDG

LEAD COMPOUND, SOLUBLE, N.O.S. (Lead diiodide)

Lead compound, soluble, n.o.s. (Lead diiodide)

14.3. TRANSPORT HAZARD CLASS(ES)

ADR/RID 6.1 IMDG 6.1 IATA 6.1

14.4 PACKAGING GROUP

ADR/RID III IMDG III IATA III

14.5 ENVIRONMENTAL HAZARDS

ADR/RID yes IMDG yes IATA no

14.6 SPECIAL PRECAUTIONS FOR USER

Tunnel restriction code: (E)

Further information: No data available

FURTHER INFORMATION

This substance does not meet the criteria for classification as hazardous according to transportation regulations.

SECTION 15: REGULATORY INFORMATION

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. Authorisations and/or restrictions on use REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII): Lead diiodide National legislation Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of

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major-accident hazards involving dangerous substances. E1 ENVIRONMENTAL HAZARDS Other regulations Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work. This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. Authorisations and/or restrictions on use REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII): Lead diiodide National legislation Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. E1 ENVIRONMENTAL HAZARDS Other regulations Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. 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15.2. CHEMICAL SAFETY ASSESSMENT

For this product a chemical safety assessment was not carried out.

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SECTION 16: OTHER INFORMATION

THE FOLLOWING SECTIONS CONTAIN REVISIONS OR NEW STATEMENTS:

H302 Harmful if swallowed.

H332 Harmful if inhaled.

H360Df May damage the unborn child. Suspected of damaging fertility.

H361f Suspected of damaging fertility.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

LEGEND

ACRONYMS

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland

Waterways

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

CAS Chemical Abstracts Service

CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and

mixtures

DNEL Derived No Effect Level EC European Community

EINECS European Inventory of Existing Commercial Chemical Substances

IATA International Air Transport Association

IBC Intermediate Bulk Container

ICAO International Civil Aviation Organization
IMDG International Maritime Dangerous Goods

LTEL Long term exposure limit

PBT Persistent, Bioaccumulative and Toxic
PNEC Predicted No Effect Concentration

REACH Registration, Evaluation, Authorization and Restriction of Chemicals

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

STEL Short term exposure limit
STOT Specific Target Organ Toxicity

UN United Nations

vPvB very Persistent and very Bioaccumulative

DISCLAIMERS

This MSDS has been prepared to the best of Noctiluca S.A. ability using currently available information. However, Noctiluca S.A. cannot guarantee the accuracy of the data and hazard assessments provided. Before using the product, it is important to thoroughly research and understand the relevant laws, regulations, and potential hazards. It is recommended to use the product as soon as possible after purchase with safety in mind. Any updates or changes will be added as necessary. The listed precautions are for normal handling, but if special handling is required, additional safety measures should be taken. Chemical products should be considered potentially hazardous and toxic, with the degree of risk dependent on various factors. Only those with specialised knowledge and experience or under the guidance of such individuals should handle the product from opening to storage and disposal. Each user is responsible for establishing safe usage conditions and obtaining any necessary intellectual property permission related to the use of product, compliance with all applicable regulatory requirements and generally accepted industry standards, and conducting all necessary testing and verification, including for fitness for the intended purpose. Noctiluca S.A. makes no representation or warranty of any kind, express or implied, including merchantability or fitness for a particular use regarding the product, its application or any information provided in connection therewith. The foregoing information and suggestions are also provided without warranty of non-infringement as to intellectual property rights of third parties and shall not be construed as any inducement to infringe the rights of third parties. Noctiluca S.A. shall not be liable for incidental, consequential, indirect, exemplary or special damages of any kind exemplary or special damages of any kind, including, without limitation, liability for any damage resulting from handling or from contact with the above product, in particularly all risk and liability for loss, damage or injury to persons or to property or others arising out of the transport, storage or use of product, including infringement of any third-party intellectual property rights resulting from use of product. In addition, Noctiluca S.A. shall not be liable for incidental, consequential, indirect, exemplary or special damages of any kind, including, without

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limitation, liability for loss of use, loss of work in progress, loss of revenue or profits, cost of substitute equipment, facilities or services, downtime costs, damage to reputation, product recall or business interruption or any liability of purchaser to a third party.



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