

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 TPE-TOH

CHEMICAL NAME Tetrakis(4-hydroxyphenyl)ethylene

 CAS no.
 119301-59-6

 EC no.
 n/a

 INDEX no.
 n/a

REACH REGISTRATION no. not applicable

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

IDENTIFIED USES

These chemicals are intended solely for use in

laboratory experiments or research and development. They are not suitable for either drug or

household use.

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

COMPANY IDENTIFICATION

ADDRESS OF SUPPLIER

Noctiluca S.A.

Noctiluca 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) Acute toxicity, oral (Category 4)

Skin corrosion/irritation (Category 2)

Serious eye damage/eye irritation(Category 2A)

Specific target organ toxicity, single exposure; Respiratory system

(Category 3)

2.2. LABEL ELEMENTS

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

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HAZARD PICTOGRAMS

(!)

GHS07

SIGNAL WORDS Warning

HAZARD STATEMENTS

H302 Harmful if swallowed
H315 Causes skin irritation

H319 Causes serious eye irritation H335 May cause respiratory irritation

PRECAUTIONARY STATEMENTS P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

2.3. OTHER HAZARDS

This substance/mixture does not include any components that are deemed to be persistent, bioaccumulative, and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or more. This safety data sheet contains additional precautionary statements in other sections.

2.4. ADDITIONAL INFORMATION

not applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. SUBSTANCES

CHEMICAL NAME

Tetrakis(4-hydroxyphenyl)ethylene

SYNONYMS - CHEMICAL FORMULA C26H2

3.2. MIXTURES not applicable

SECTION 4: FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

GENERAL ADVICE First aiders should ensure they have taken adequate

steps to protect themselves from exposure (see Section 8 for recommended personal protection equipment) Show this safety data sheet to the doctor

in attendance.

INHALATION Take the individual to an area with clean air and

ensure they are comfortable for breathing. Seek medical attention if any discomfort or illness is

experienced

SKIN CONTACT Remove contaminated clothing and shoes. Cleanse

affected areas with water and soap. Take the affected person to the hospital right away and seek medical advice. Rinse the skin with water, and if any irritation is noticed, seek medical advice or attention.

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EYE CONTACT Carefully rinse with water for several minutes. If

contact lenses are being worn, remove them if it's easy to do so, and continue flushing. Rinse the affected area with abundant water for at least 15

minutes and seek medical advice.

INGESTION Wash mouth with water. If you experience any

discomfort or illness, seek medical attention. Do not induce vomiting and refrain from giving anything by

mouth to an unconscious person.

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

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING MEDIA UNSUITABLE EXTINGUISHING MEDIA

alcohol-resistant foam, dry chemical, carbon dioxide

no data

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

In combustion toxic fumes may form.
Carbon oxides

5.3. ADVICE FOR FIREFIGHTERS

Firefighters should wear complete protective clothing including self-contained breathing apparatus.

5.4. FURTHER INFORMATION

Use a water spray to control (reduce) gases/vapors/mists and avoid contamination of surface water or the groundwater system by the water used to extinguish the fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Abide by the safe handling guidance and use the suggested personal protective equipment (section 8). Ensure there is sufficient ventilation, wear respiratory protection, and avoid producing dust. Stay clear of inhaling gas, mist, or vapors. Make sure that there is adequate ventilation and evacuate individuals to a secure location. Do not undertake any action without proper protective gear. Section 8 provides guidelines for personal protection.

6.2. ENVIRONMENTAL PRECAUTIONS

Avoid release to the environment.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Clean up the spilled material by sweeping, but try to avoid generating dust. Where feasible, use vacuum equipment to collect the spilt substance. Dispose of the contents based on the local, state, or national laws.

6.4. REFERENCE TO OTHER SECTIONS

For disposal see section 13.

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SECTION 7: HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

ADVICE ON SAFE HANDLING Avoid breathing, swallowing, and making contact

with the skin and eyes. Only use the substance in a places with good ventilation. Put on protective

clothing as advised in section 8.

HYGIENE MEASURES Keep away from food and drink. Wash hands after

handling, before breaks, and at the end of workday. Normal measures for preventive fire protection.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

GENERAL Store in a well-ventilated place. Keep container

tightly closed and dry.
Room temperature

STORAGE LIFE Product is light sensitive and air sensitive. Keep in dark

place and under inert atmosphere.

INCOMPATIBLE MATERIALS Not known

STORAGE CLASS -

7.3. SPECIFIC END USE(S)

STORAGE TEMPERATURE

FIRE PROTECTION

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 for the purpose of cleansing the eyes and skin.

8.2.2. PERSONAL PROTECTION EQUIPMENT

EYE/FACE PROTECTION Face shield and safety glasses Use equipment for eye

protection tested and approved under appropriate government standards such as NIOSH (US) or EN $\,$

166(EU).

166 HAND PROTECTION Use

Use gloves. Before using gloves, inspect them carefully. Use an appropriate technique to remove the gloves, ensuring that the outer surface of the gloves is not touched to avoid coming into contact with the substance. After use, dispose of contaminated gloves according to the appropriate regulations and good laboratory practices. Wash and dry hands after removing gloves. The gloves

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selected must meet the specifications of Regulation

(EU) 2016/425 and the standard EN 374.

BODY PROTECTION Select appropriate body protection depending on

the type, concentration, and quantity of hazardous substances present and the particular workplace

conditions.

RESPIRATORY PROTECTION Under normal circumstances no personal respiratory

protection is necessary.

THERMAL HAZARDS Not known

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 white to yellow **ODOUR** n/a **ODOUR THRESHOLD** n/a MELTING POINT/FREEZING POINT 323°C 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 рΗ n/a KINEMATIC VISCOSITY n/a SOLUBILITY(IES) water: n/a

other: hot methanol

n/a

PARTITION COEFFICIENT: N-OCTANOL/WATER (LOG

VALUE)

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

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 conditions.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

n/a

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10.4. CONDITIONS TO AVOID

n/a

10.5. INCOMPATIBLE MATERIALS

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	n/a
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
CARCINOGENICITY	n/a
REPRODUCTIVE TOXICITY	n/a
LACTATION	n/a
STOT – SINGLE EXPOSURE	n/a
STOT – REPEATED EXPOSURE	n/a
ASPIRATION HAZARD	n/a

11.2. INFORMATION ON OTHER HAZARDS

According to current knowledge there has not been a comprehensive investigation of the chemical, physical, and toxicological characteristics.

11.2.1. ENDOCRINE DISRUPTING PROPERTIES

n/a

11.2.2. INFORMATION ON OTHER HAZARDS

n/a

SECTION 12: ECOLOGICAL INFORMATION

12.1. TOXICITY

TOXICITY - AQUATIC INVERTEBRATES	n/a
TOXICITY - FISH	n/a
TOXICITY - ALGAE	n/a
TOXICITY – SEDIMENT COMPARTMENT	n/a
TOXICITY – TERRESTRIAL COMPARTMENT	n/a

12.2. PERSISTENCE AND DEGRADATION

n/a

12.3. BIOACCUMULATIVE POTENTIAL

n/a

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12.4. MOBILITY IN SOIL

n/a

12.5. RESULTS OF PBT AND VPVB ASSESMENT

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.

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

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

14.6 SPECIAL PRECAUTIONS FOR USER

14.1. UN NUN	MBER					
ADR/RID	-	IMDG	-	IATA	-	
14.2. UN PROPER SHIPPING NAME						
ADR/RID IMDG IATA	Not dange Not dange Not dange	erous				
14.3. TRANSPORT HAZARD CLASS(ES)						
ADR/RID	-	IMDG	-	IATA	-	
14.4 PACKAGING GROUP						
ADR/RID	-	IMDG	-	IATA	-	
14.5 ENVIRONMENTAL HAZARDS						
ADR/RID	no	IMDG	no	IATA	no	

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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

EUROPEAN REGULATIONS – AUTHORISATIONS AND/OR RESTRICTONS ON USE	
CANDIDATE LIST OF SUBSTANCES OF VERY HIGH CONCERN FOR AUTHORISATION	not listed
REACH: ANNEX XIV LIST OF SUBSTANCES SUBJECT TO AUTHORISATION	not listed
REACH: ANNEX XVII RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE	not listed
OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES	
COMMUNITY ROLLING ACTION PLAN (CORAP)	not listed
REGULATION (EC) N° 850/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL ON	not listed
PERSISTENT ORGANIC POLLUTANTS	
REGULATION (EC) N° 1005/2009 ON SUBSTANCES THAT DEPLETE THE OZONE LAYER	not listed
REGULATION (EU) N° 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL	not listed
CONCERNING THE EXPORT AND IMPORT OF HAZARDOUS CHEMICALS	

NATIONAL REGULATIONS

OTHER not known

15.2. CHEMICAL SAFETY ASSESSMENT

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

Long term exposure limit

Persistent, Bioaccumulative and Toxic

SECTION 16: OTHER INFORMATION

THE FOLLOWING SECTIONS CONTAIN REVISIONS OR NEW STATEMENTS:

n/a

LEGEND

LTEL

PBT

ACRONYMS

ADN European Agreement concerning the International Carriage of Dangerous Goods Waterways	s by Inland
ADR European Agreement concerning the International Carriage of Dangerous Goods I	by Road
CAS Chemical Abstracts Service	
CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of subst-	ances 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	

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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 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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