

# SAFETY DATA SHEET

Date of issue: 19.09.2019 r.

Version: 1.0/PL

[In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended]

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

### 1.1 Product identifier

**POLISH**

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

Relevant identified uses: for refurbishing car headlights.Uses advised against: not determined.

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

Importer: **Lumileds Poland S.A.**

Address: 95-200 Pabianice, ul. Partyzancka 66/72, Poland

Telephone/Fax number: 42 225 11 00

E-mail address for a competent person responsible for SDS: biuro@theta-doradztwo.pl

### 1.4 Emergency telephone number

112

## Section 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Eye Dam. 1 H318, Skin Irrit. 2 H315**

Causes serious eye damage. Causes skin irritation.

### 2.2 Label elements

Hazard pictograms and signal words**DANGER**Name of components placed on the label

Contains: ammonia, 25% solution.

Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements

P102 Keep out of reach of children.

P280 Wear eye protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

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

P310 Immediately call a POISON CENTER/doctor.

P501 Dispose of contents/container to properly labelled waste containers according to national law.

### 2.3 Other hazards

The mixture does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

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## Section 3: Composition/information on ingredients

### 3.1 Substances

Not applicable.

### 3.2 Mixtures

CAS: 14808-60-7 EINECS: 238-878-4 Index number: - REACH number*: -	<u>silica</u> substance is not classified as hazard	20-30%
CAS: 1336-21-6 EINECS: 215-647-6 Index number: 007-001-01-2 REACH number*: -	<u>ammonia, aqueous solution<sup>1)</sup></u> Skin Corr. 1B H314, Aquatic Acute 1 H400 (M=1) concentration limits: STOT SE 3 H335≥%	1-<5%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 REACH number*: -	<u>propan-2-ol<sup>1)</sup></u> Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H335	1-<5%

1) Substance with a maximum concentration value specified at EU level in the work environment.

\* substances exempted from registration (tonnage &lt;1 ton / year).

Full text of each relevant H phrase is given in section 16 of SDS.

## Section 4: First aid measures

### 4.1 Description of first aid measures

Skin contact: rinse exposed skin thoroughly with soap and water. Take off contaminated clothing. Wash clothing before reuse. Consult a doctor if disturbing symptoms appear.

Eye contact: remove contact lenses. Wash the contaminated eyes with plenty of water for min. 15 minutes. Avoid powerful water stream – risk of cornea damage. Apply a sterile dressing. Consult an ophthalmologist immediately.

Ingestion: do not induce vomiting. Rinse mouth with water. Give about 250 ml of water to drink. Never give anything by mouth to an unconscious person. Consult a doctor if disturbing symptoms appear.

Inhalation: move the victim to fresh air. Keep victim warm and calm. Consult a doctor if disturbing symptoms appear.

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

Skin contact: redness, irritation.

Ingestion: irritation, stomach pain, nausea, vomiting.

Eye contact: redness, burning sensation, tearing, irritation, serious eye damage.

Inhalation: high concentration of vapors and mists can lead to irritation of the mucous membranes of the respiratory tract, coughing.

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

Physician makes a decision regarding further medical treatment after thoroughly examination of the injured. Symptomatic treatment.

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## Section 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media: CO<sub>2</sub>, dry chemicals, extinguishing foam, water spray. Adapt the extinguishing media to surrounding materials.

Unsuitable extinguishing media: water jet – risk of the propagation of the flame.

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

During the fire, the product may produce harmful fumes containing e.g. carbon oxides, ammonium. Do not inhale combustion products, they can be dangerous for human health.

### 5.3 Advice for firefighters

Personal protection typical in case of fire. Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals. Collect used extinguishing media.

## Section 6: Accidental release measures

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

Limit the access for the outsiders into the breakdown area, until the suitable cleaning operations are completed. In case of large releases, isolate the affected area. Ensure that only trained personnel can remove the effects of a failure. Use personal protection equipment. Avoid eye and skin contamination. Do not breathe vapors. Ensure adequate ventilation.

### 6.2 Environmental precautions

In case of release of large amounts of the product, it is necessary to take appropriate steps to prevent it from spreading into the environment. Notify relevant emergency services.

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

Collect the product with liquid-binding materials (e.g. sand, soil, universal binding agents, silica, vermiculite etc.) and place it in labeled containers. Treat the collected material as waste. Clean the contaminated area with large amount of water and ventilate well.

### 6.4 Reference to other sections

Appropriate conduct with waste product – section 13. Personal protective equipment – see section 8.

## Section 7: Handling and storage

### 7.1 Precautions for safe handling

Handle in accordance with good occupational hygiene and safety practices. Do not eat, drink or smoke when using the product. Before break and after work wash hands. Ensure good ventilation. Do not inhale vapour. Avoid eyes and skin contamination. Use personal protective equipment. Unused containers keep tightly closed.

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

Keep only in original, tightly closed containers in a cool, dry and well-ventilated area. Keep away from foodstuffs and animal feed. Unused containers keep tightly closed.

### 7.3 Specific end use(s)

No information about other uses than those mentioned in subsection 1.2.

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## Section 8: Exposure controls/personal protection

### 8.1 Control parameters

Ammonia	TWA:	14 mg/m <sup>3</sup>	20 ppm
	STEL:	36 mg/m <sup>3</sup>	50 ppm

Legal basis: Commission Directive 2006/15/EC, 2000/39/EC, 2009/161/EC.

Please check any national occupational exposure limit values in your country.

### 8.2. Exposure controls

Use the product in accordance with good occupational hygiene and safety practices. Handle only in well-ventilated premises. Do not eat, drink or smoke when using the product. Before break and after work wash hands carefully. Avoid contact with skin and eyes. Use personal protection equipment. Safety showers and eye washers should be installed near the workplace.

#### Hand protection

Use protective gloves resistant to the product. In case of a short-term exposure: use protective gloves with effectiveness level  $\geq 2$  (breakthrough time >30 min). In case of a long-term exposure: use protective gloves with effectiveness level 6 (breakthrough time > 480 min.).

The material that the gloves are made of must be impenetrable and resistant to the product's effects. The selection of material must be performed with consideration of breakthrough time, penetration speed and degradation. Moreover, the selection of proper gloves depends not only on the material, but also on other quality features and changes depending on the manufacturer. The producer should provide detailed information regarding the exact breakthrough time. This information should be followed.

#### Body protection

Use protective clothing resistant to the product.

#### Eyes protection

Use tightly fitting safety glasses.

#### Respiratory protection

Use respiratory protection in case of exceeding the allowable OEL values, breakdowns or insufficient ventilation during work processes.

Personal protective equipment must meet requirements of regulation 2016/425. Employer is obliged to ensure equipment adequate to activities carried out, with quality demands, cleaning and maintenance.

#### Environmental exposure controls

Prevent direct release to drains/ surface waters. Do not contaminate surface waters and drainage ditches with chemicals or used containers. Released product or uncontrolled spills to surface waters should be reported to appropriate authorities in accordance with local and national legislations. Dispose as chemical waste, in accordance with local and national legislation.



## Section 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

physical state:	liquid
colour:	green
odour:	characteristic for ammonia
odour threshold:	not determined
pH:	7-8
melting point/freezing point:	not determined
initial boiling point and boiling range:	ca. 100°C
flash point:	$\geq 70^{\circ}\text{C}$

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evaporation rate:	not determined
flammability (solid, gas):	not applicable
upper/lower flammability or explosive limits:	not determined
vapour pressure:	not determined
vapour density:	not determined
density:	ca. 1,2 g/cm <sup>3</sup>
solubility(ies):	soluble in water
partition coefficient: n-octanol/water:	not determined
auto-ignition temperature:	not determined
decomposition temperature:	not determined
explosive properties:	not display
oxidising properties:	not display
dynamic viscosity:	not applicable

## 9.2 Other information

No additional test results.

## Section 10: Stability and reactivity

### 10.1 Reactivity

Low reactivity. It does not undergo dangerous polymerization. See 10,3-10,5.

### 10.2 Chemical stability

The product is stable under normal conditions of use and storage.

### 10.3 Possibility of hazardous reactions

Not known.

### 10.4 Conditions to avoid

Avoid direct exposure to sunlight, extreme temperature.

### 10.5 Incompatible materials

Strong acids and bases.

### 10.6 Hazardous decomposition products

Not known.

## Section 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Based on available data, the classification criteria are not met.

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/irritation

Causes serious eye damage.

#### Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

#### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

#### Carcinogenicity

Based on available data, the classification criteria are not met.

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## Reproductive toxicity

Based on available data, the classification criteria are not met.

## STOT-single exposure

Based on available data, the classification criteria are not met.

## STOT-repeated exposure

Based on available data, the classification criteria are not met.

## Aspiration hazard

Based on available data, the classification criteria are not met.

## Section 12: Ecological information

### 12.1 Toxicity

Product is not classified as hazardous for the environment.

### 12.2 Persistence and degradability

No specific data for the mixture.

### 12.3 Bioaccumulative potential

Product is not subject to bioaccumulation.

### 12.4 Mobility in soil

Mobility of components of the mixture in soil depends on the hydrophilic and hydrophobic properties and biotic and abiotic conditions of soil, including its structure, climatic conditions, seasons and soil organisms (mostly: bacteria, fungus, algae, invertebrates).

### 12.5 Results of PBT and vPvB assessment

Components do not meet the criteria of PBT or vPvB.

### 12.6 Other adverse effects

The mixture is not classified as hazardous for the ozone layer. Other harmful effects of particular components of the mixture on the environment (e.g.: endocrine disrupting, the impact on the global warming) should be considered.

## Section 13: Disposal considerations

### 13.1 Waste treatment methods

Disposal methods for the product: disposal in accordance with the local legislation. Mixture should be stored in original packaging. Do not empty into drains. Waste code should be given in the place of its formation.

Disposal methods for used packing: reuse/recycle/liquidate empty containers in accordance with the legislation in force.

Legal basis: Directive 2008/98/EC, 94/62/EC.

## Section 14: Transport information

### 14.1 UN number

Not applicable. Product is not classified as dangerous during transport.

### 14.2 UN proper shipping name

Not applicable.

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## 14.3 Transport hazard class(es)

Not applicable.

## 14.4 Packing group

Not applicable.

## 14.5 Environmental hazards

Product is not hazardous for the environment.

## 14.6 Special precautions for user

Not required.

## 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

## Section 15: Regulatory information

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

**Regulation (EC) No 1907/2006** of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC as amended.

**Regulation (EC) No 1272/2008** of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 as amended.

**Commission Regulation (EU) No 2015/830** of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

**Directive 2008/98/EC** of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives.

**European Parliament and Council Directive 94/62/EC** of 20 December 1994 on packaging and packaging waste.

### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for mixtures.

## Section 16: Other information

### Full text of indicated H phrases mentioned in section 3

H225	Highly flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.

### Clarification of aberrations and acronyms

Skin Corr. 1B	Skin corrosion category 1A
Eye Irrit. 2	Eye irritation category 2
Acute Tox. 4	Acute toxicity category 4
STOT SE 3	Specific target organ toxicity (single exposure) category 3
Aquatic Chronic 1	Acute hazardous to the aquatic environment category 1
TWA	Time Weighted Average.
STEL	Short Term Exposure Limit.

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PBT Persistent, Bioaccumulative and Toxic substance

vPvB very Persistent, very Bioaccumulative substance

## Trainings

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training.

## Other data

Classification was based on data on hazardous substances content established by calculation method under the guidance of Regulation 1272/2008/EC (CLP) as amended. The acute toxicity estimate (ATEmix) for the classification of a substance in a mixture was determined using the appropriate conversion value from Table 3.1.2 (Annex I to CLP).

Composed by: mgr inż. Anna Królak (on the basis of producer's data).

Safety Data Sheet made by: „**THETA**” Doradztwo Techniczne

The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are to be treated as aid to safety in transport, storage and usage of the product. That does not free the user from the responsibility of improper usage of the information above and also of improper compliance with the law norms in the field.