

LumiQ®o-PbS-1450 PbS QD

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878
Version: 2602

Section 1: Identification of the materials and of the company

1.1 Product identifiers

Product name : PbS QD oleic acid
Product number : A26021
Brand : AilumiQ

1.2 Relevant identified uses of the substance and uses advised against

Identified uses : Laboratory chemicals
Uses advised against : For R&D use only. Not for pharmaceutical, or other uses.

1.3 Details of the supplier of the safety data sheet

Company : AilumiQ, Taipei City, Taiwan
Telephone : +886 2-7701-7980
E-mail address : info@ailumiq.com

Section 2: Hazards identification

2.1 Classification of the materials

Flammable liquids — Category 2	H225: Highly flammable liquid and vapour
Skin irritation — Category 2	H315: Causes skin irritation
Specific target organ toxicity (single exposure) — Category 3	H336: May cause drowsiness or dizziness
Specific target organ toxicity (repeated exposure) — Category 2	H373: May cause damage to organs through prolonged or repeated exposure
Aspiration hazard — Category 1	H304: May be fatal if swallowed and enters airways
Reproductive toxicity — Category 1A	H360FD: May damage fertility. May damage the unborn child
Chronic aquatic toxicity — Category 2	H411: Toxic to aquatic life with long lasting effects

2.2 Label elements



Hazard pictograms :

Signal word : Danger

H225	Highly flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H336	May cause drowsiness or dizziness
H360FD	May damage fertility. May damage the unborn child

Hazard statements	H373	May cause damage to organs through prolonged
Precautionary statements	H411	Toxic to aquatic life with long lasting effects
Prevention:		
	P202	Do not handle until all safety precautions have been read and understood
	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
	P273	Avoid release to the environment
Response:		
	P301 + P310	If swallowed: Immediately call a doctor
	P303 + P361 + P353	if on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water
	P331	Do not induce vomiting

2.3 Other hazards

This material 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 material 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 material 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.

Section 3: First aid measures

General advice	Show this safety data sheet to the doctor in attendance.
If inhaled	After inhalation: fresh air. Call in the physician.
In case of skin contact	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.
In case of eye contact	After eye contact: rinse out with plenty of water. Call an ophthalmologist. Remove contact lenses.
If swallowed	After swallowing: caution if victim vomits. Risk of aspiration! Keep airways free. Pulmonary failure possible after aspiration of vomit. Call a physician immediately.

Section 4: Firefighting measures

4.1 Extinguishing media

Suitable extinguishing media : Foam Carbon dioxide (CO₂) Dry powder

Unsuitable extinguishing media : For this substance/mixture no limitations of extinguishing agents are given.

4.2 Special hazards arising from the materials

Specific hazards during fire : Mixture with combustible ingredients
Pay attention to flashback
Vapours are heavier than air and may spread along floors.
Development of hazardous combustion gases or vapours possible in the event of

		fire. Forms explosive mixtures with air at ambient temperatures.
Hazardous combustion products	:	Carbon oxides Sulphur oxides Lead oxides
4.3 Advice for firefighters		
Special protective equipment for firefighters	:	Stay in danger areas only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
Further information	:	Remove container from danger zone and cool with water. Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 5: Accidental release measures

- 5.1 Personal precautions, protective equipment and emergency procedures**
- Personal precautions : Advice for non-emergency personnel:
Do not breathe vapours, aerosols.
Avoid substance contact.
Ensure adequate ventilation.
Keep away from heat and sources of ignition.
Evacuate the danger area, observe emergency procedures, consult an expert.
- 5.2 Environmental precautions**
- Environmental precautions : Do not let products enter drains.
Risk of explosion.
- 5.3 Methods and material for containment and cleaning up**
- Methods for cleaning up : Cover drains. Collect, bind, and pump off spills.
Observe possible material restrictions
Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up the affected area.

Section 6: Handling and storage

- 6.1 Precautions for safe handling**
- Advice on safe handling : Work under hood. Do not inhale substance/mixture.
Avoid generation of vapours/aerosols.
- Advice on protection against fire and explosion : Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.
- Hygiene measures : Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
- 6.2 Conditions for safe storage, including any incompatibilities**
- Further information on storage conditions : Keep the container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorised persons.
- Storage class (TRGS 510) : 3, Flammable liquids
- Storage temperature : 4 - 8 °C
- Further information on storage stability : Air, light, and moisture sensitive.
Heat sensitive.
Handle and store under inert gas.

Section 7: Exposure controls/personal protection

Exposure controls
Personal protective 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
Skin and body protection	:	Flame retardant antistatic protective clothing
Respiratory protection	:	Required when vapours/aerosols are generated.

Section 8: Physical and chemical properties

Information on basic physical and chemical properties

Physical state	:	liquid
Color	:	black
Melting range	:	around -80~-95 °C
Boiling range	:	around 100~140 °C
Density range	:	around 0.85~0.95 g/cm ³

SECTION 9: Stability and reactivity

9.1 Reactivity

No data available

9.2 Chemical stability

The product is chemically stable under inert conditions (room temperature)

9.3 Possibility of hazardous reactions

Violent reactions possible with:
Strong oxidizing agents
Metals

9.4 Conditions to avoid

Heating.

Section 10: Disposal considerations

Waste treatment methods

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

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