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

1.1 PRODUCT IDENTIFIERS

Product Name : ACS Material LumioTech™ DMAC-DPS
Chemical Name : 10,10-(4,4'-Sulfonylbis(4,1-phenylene))bis(9,9-dimethyl-9,10-dihydroacridine)
CAS-No. : 1477512-32-5
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 :
Error! No bookmark name given.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Company : **Error! No bookmark name given.**
Address of supplier : ACS MATERIAL LLC
959 E Walnut St. Suite 100
Pasadena, CA 91106, USA
Telephone : +1 866-227-0656
E-mail : contact@acsmaterial.com
Office Hours : 8:30 — 17:00 (PST)

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) : Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2 LABEL ELEMENTS

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

Product name DMAC-DPS

Hazard Pictograms The product does not need to be labelled in accordance with EC directives or respective national laws.

Signal word -

Hazard statements -

Precautionary statements -

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 : 10,10-(4,4'-Sulfonylbis(4,1-phenylene))bis(9,9-dimethyl-9,10-dihydroacridine)

Synonyms : -

Chemical formula : C₄₂H₃₆N₂O₂S

Molecular weight : 632.81g/mol

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.

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.

4.1 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

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4.2 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Suitable extinguishing

Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing

No data

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Error! No bookmark name given.

Sulfur oxides

5.3 ADVICE FOR FIREFIGHTERS

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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 materials 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.

6.5 Reference to other sections

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SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Advice on safe handling

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Hygiene measures

Keep away from food and drink. Wash hands after handling, before breaks, and at the end of workday.

Fire protection

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.

Storage temperature

Ambient

Storage life

Product may be moisture sensitive. Handle and store under inert gas.

Incompatible materials

Not known

Storage class

TRGS 510: 11: Combustible Solids

7.3 SPECIFIC END USE(S)

Error! No bookmark name given.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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).

Hand protection

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 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, there is no need for personal respiratory protection.

Thermal hazards

Not known.

8.2.3 ENVIRONMENTAL EXPOSURE CONTROLS

Control of environmental exposure

Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state	solid
Color	white to pale yellow
Odor	n/a
Odor Threshold	n/a
pH	n/a
Melting point/freezing point	320°C
Initial boiling point and boiling range	n/a
Flammability	n/a
Evaporation rate	n/a
Flammability (solid, gas)	n/a

Lower and upper explosion limit	n/a
Flash point	n/a
Auto-ignition temperature(°C)	n/a
Decomposition temperature	n/a
Kinematic viscosity	n/a
Solubility (IES)	water: n/a other: n/a
Partition coefficient: n-octanol/water	n/a
Vapor pressure	n/a
Density	n/a
Relative density	n/a
Relative vapor density	n/a
Particle characteristics	n/a

9.2 OTHER INFORMATION
Error! No bookmark name given.

SECTION 10: STABILITY AND REACTIVITY

- 10.1 REACTIVITY**
Error! No bookmark name given.
- 10.2 CHEMICAL STABILITY**
Error! No bookmark name given.
- 10.3 POSSIBILITY OF HAZARDOUS REACTIONS**
n/a.
- 10.4 CONDITIONS TO AVOID**
n/a.
- 10.5 INCOMPATIBLE MATERIALS**
n/a.
- 10.6 HAZARDOUS DECOMPOSITION PRODUCTS**
Error! No bookmark name given.

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	not classified
Toxicity - terrestrial compartment	not classified

12.2 PERSISTENCE AND DEGRADATION

n/a.

12.3 BIOACCUMULATIVE POTENTIAL

Error! No bookmark name given.

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

14.1. UN NUMBER

ADR/RID - IMDG - IATA

14.2. UN PROPER SHIPPING NAME

ADR/RID Not dangerous
IMDG Not dangerous
IATA Not dangerous -

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

14.6. SPECIAL PRECAUTIONS FOR USER**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 - authorizations and/or restrictions on use

Candidate list of substances of very high concern for authorization	not listed
Reach: annex list of substances subject to authorization	not listed
Reach: annex xvii restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	not listed
Community rolling action plan (CORAP)	not listed
Regulation (EC) N°850/2004 of the European parliament and of the council on persistent organic pollutants	not listed
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
Concerning the export and import of hazardous chemicals

not listed

National regulations

Other

not known

15.2. CHEMICAL SAFETY ASSESSMENT

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

SECTION 16: OTHER INFORMATION

THE FOLLOWING SECTIONS CONTAIN REVISIONS OR NEW STATEMENTS:

n/a

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

DISCLAIMER: 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 specialized 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, 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.