
SECTION 1: IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

1.1 Product identifiers

Product Name : ACS Material LumioTech™ PO-T2T
Chemical Name : 2,4,6-Tris[3-(diphenylphosphinyl)phenyl]-1,3,5-triazine
Product Number : PO-T2T
Brand : ACS Material LLC
CAS-No. : 1646906-26-4

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 uses.

1.3 Details of the supplier of the safety data sheet

Company : ACS MATERIAL LLC
959 E Walnut, Suite 100
Pasadena, CA 91106
USA
Telephone : +1 (866)-227-0656
Fax : +1 (781)-518-0284

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 or mixture

Regulation (EC)No.1272/2008(CLP) Skin Irrit.2: Causes skin irritation
Eye Irrit.2: Causes serious eye irritation
STOT SE 3: May cause respiratory irritation

2.2 GHS Label elements, including precautionary statements

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

Pictogram	
Signal word	GHS07 Warning
Hazard statement(s)	
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
Precautionary statement(s)	
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.
P312	Call a POISON CENTER or doctor if you feel unwell.
P337 +P313	If eye irritation persists: Get medical advice/attention.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Substance name	:	2,4,6-Tris[3-(diphenylphosphinyl) phenyl]-1,3,5-triazine
Chemical formula	:	C ₅₇ H ₄₂ N ₃ O ₃ P ₃
CAS-No	:	7440-44-0
Molecular weight	:	909.88 g/mol
Synonyms	:	(1,3,5-Triazine-2,4,6-triyl)tris(benzene-3,1-diyl)tris(diphenylphosphine oxide)

Hazardous impurities: None known.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Seek medical advice and display this safety data sheet to the attending doctor. Leave the hazardous area immediately. First aid personnel should make sure that they have taken the necessary precautions to prevent exposure (refer to Section 8 for suggested personal protective equipment).

If inhaled

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

In case of 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.

In case of 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.

If swallowed

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 effects are described 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**

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

Unsuitable extinguishing media

No data

5.2 Special hazards arising from the substance or mixture

In combustion toxic fumes may form.

Carbon oxides

Nitrogen oxides (NO_x)

Oxides of phosphorus

5.3 Advice for firefighters

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

5.4 Further information

No data available.

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.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling**Advice on safe handling**

Avoid breathing, swallowing, and making contact with the skin and eyes. Only use the substance in a place 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.

Fire Protection

Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

General Keep container tightly closed in a dry and well-ventilated area. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage temperature 15-25°C.

Storage life Product is light sensitive. Store in the dark.

Incompatible materials Not known

Storage Class Storage class (TRGS 510):13: Non Combustible Solids

7.3 Specific end use(s)

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.1.1 Occupational Exposure Limits

No Occupational Exposure Limit assigned.

8.2 Exposure Controls

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.

8.3 Personal protective 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 no personal respiratory protection is necessary.

Thermal hazards

Not known

8.4 Environmental exposure controls

Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- | | |
|-------------------|-------------------|
| 1) Appearance | Form: solid |
| 2) Odor | Color: off-white |
| 3) Odor Threshold | No data available |
| | No data available |



4) Melting Point/Freezing Point	460°C
5) Initial Boiling Point and Boiling Range	No data available
6) Flammability	Not flammable
7) Upper/Lower Explosion Limit	No data available
8) Flash Point	No data available
9) Auto-Ignition Temperature (°C)	No data available
10) Decomposition Temperature	No data available
11) pH	No data available
12) Kinematic Viscosity	No data available
13) Solubility (IES)	Water: Not known Other: Not known
14) Partition Coefficient: N- Octanol/Water (Log Value)	No data available
15) Vapor Pressure	No data available
16) Density	No data available
17) Relative Density	No data available
18) Relative Vapor Density	No data available
19) Particle Characteristics	No data available

9.2 Other safety information

No data available.

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

No data available

10.4 Conditions to avoid

No data available

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 : No data available.
Skin contact : No data available.
Inhalation : No data available.

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

Lactation

No data available.

Specific target organ toxicity - single exposure

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

No data available.

Aspiration hazard

No data available.

11.2 Information on other hazards

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

11.3 Endocrine Disrupting Properties

No data available

11.4 Information on Other Hazards

No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

No data available.

12.2 Persistence and Degradation

No data available.

12.3 Bioaccumulative Potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

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

No data available.

12.7 Other adverse effects

No data available.

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

UN number

ADR/RID: - IMDG: - IATA: -

UN proper shipping name

ADR/RID: not dangerous IMDG: not dangerous IATA: not dangerous

Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

Packaging group

ADR/RID: - IMDG: - IATA: -

Environmental hazards

ADR/RID: no IMDG: no IATA: no

Special precautions for user

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 xiv 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 regulation:

Other not known

15.2 Chemical safety assessment

No chemical safety assessment was carried out for this product.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:
No data available.

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

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