SAFETY DATA SHEET

Version: v1
Revision Date: 2023-07-15
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SECTION 1:Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name	: Trioctyl trimellitate
Product Number	: T107253
Brand	: aladdin
CAS-No.	: 3319-31-1

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

Identified uses	: 仅供科研用途，不作为药物、家庭备用药或其它用途。

1.3 Details of the supplier of the safety data sheet

Company	: Shanghai Aladdin Biochemical Tech Co.,Ltd
Address	: 36 Xinjinqiao Road, Shanghai
Telephone	: 400-620-6333
Fax	: no data available

1.4 Emergency telephone number

Emergency Phone	: 0532-83889090

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Warning

Hazard statement(s)

H315 Causes skin irritation

Precautionary statement(s)

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash hands [and …] thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container to an approved waste disposal plant.

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

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : TOTM Tris(2-ethylhexyl) trimellitate；1,2,4-Benzenetricarboxylic Acid Tris(2-ethylhexyl) Ester；Trimellitic Acid Tris(2-ethylhexyl) Ester；Trioctyl 1,2,4-Benzenetricarboxylate

Formula : C33H54O6

Molecular weight : 546.78

CAS No. : 3319-31-1

EC-NO. : 222-020-0

Component	Classification	Concentration
Trioctyl trimellitate		
	no data available	97%

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

no data available

If inhaled

If breathed in, move person into fresh air.If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person.Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

no data available

4.3 Indication of any immediate medical attention and special treatment needed

no data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products formed under fire conditions.- Nature of decomposition products not known.

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors, mist or gas.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

no data available

SECTION 7: Handling and storage

7.1 Precautions for safe handling

no data available

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

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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).

Skin protection

Handle with gloves.Gloves must be inspected prior to use.Use proper glove removal technique (without touching
glove's outer surface) to avoid skin contact with this product.Dispose of contaminated gloves after use in
accordance with applicable laws and good laboratory practices.Wash and dry hands.

Body Protection

Impervious clothing., The type of protective equipment must be selected according to the concentration and amount
of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection not required.For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387)
respirator cartridges.Use respirators and components tested and approved under appropriate government
standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

no data available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	form: 粘性的 color: 淡黄
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	-43 °C
f) Initial boiling point and boiling range	414 °C 在 1,013 hPa
g) Flash point	263 °C - 闭杯
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	爆炸上限: 2.5 %(V) 爆炸下限: 0.26 %(V)

k) Vapour pressure	< 0.001 hPa 在 25 °C
l) Vapour density	no data available
m) Relative density	0.988 g/cm3 在 20 °C
n) Water solubility	no data available
o) Partition coefficient: n-octanol/water	8.88 在 55 °C
p) Auto-ignition temperature	410 °C
q) Decomposition temperature	no data available
r) Viscosity	312.64 mm2/s 在 20 °C -
s) Explosive properties N	no data available
t) Oxidizing properties N	no data available

9.2 Other safety information

no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

no data available

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

Strong oxidizing agents

10.5 Incompatible materials

Hazardous decomposition products formed under fire conditions.- Nature of decomposition products not known.
Other decomposition products - no data available

10.6 Hazardous decomposition products

Oral LD50
LD50 Oral - rat - male and female - > 5,000 mg/kg
Inhalation LC50

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LC50 Inhalation - rat - male and female - 4 h - > 2.6 mg/l
Dermal LD50
LD50 Dermal - rabbit - male and female - >

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Skin - rabbit - No skin irritation - 24 h

Skin corrosion/irritation

Eyes - rabbit - No eye irritation - 7 d

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as
probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a
carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a
known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a
carcinogen or potential carcinogen by OSHA.

Carcinogenicity

Genotoxicity in vitro - S.typhimurium - with or without metabolic activation - negative

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

Toxicity to fish semi-static test LC50 - Oryzias latipes - > 100 mg/l - 96 h
Method: OECD Test Guideline 203
Toxicity to daphnia
and other aquatic
invertebrates
Immobilization - Daphnia magna (Water flea) - > 180 mg/l - 48 h <

Additional Information

no data available

SECTION 12: Ecological information

12.1 Toxicity

no data available

12.2 Persistence and degradability

Bioaccumulation Cyprinus carpio (Carp) - 42 d
Bioconcentration factor (BCF): 1 - 2.7

Cyprinus carpio (Carp) - 42 d
Bioconcentration factor (BCF): 0.1 - 0.23

12.3 Bioaccumulative potential

Adsorbs on soil.

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

Biochemical Oxygen
Demand (BOD)
60 mg/g
Concentration: 100 mg/l

Chemical Oxygen
Demand (COD)
2,370 mg/g

12.6 Other adverse effects

no data available

SECTION 13:

13.1 Disposal considerations

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

no data available

SECTION 14: Transport information

DOT (US)

UN number: no data available	Packing group: no data available	Class: no data available
Proper shipping name: no data available	Reportable Quantity(RQ): no data available	Poison Inhalation Hazard: no data available
Environmental Hazards: 否		

IMDG

UN number: no data available	Packing group: no data available	EMS-No: no data available
Proper shipping name: no data available		

IATA

UN number: no data available	Packing group: no data available	Class: no data available
Proper shipping name: no data available		

SECTION 15: Regulatory information

no data available

SECTION 16: Other information

Further information

 The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Aladdin Co. Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

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