SIGMA-ALDRICH

sigma-aldrich.com

SAFETY DATA SHEET

Version 3.6 Revision Date 01/14/2015 Print Date 10/19/2018

1. PF	RODUCT AND COMPANY	IDENTIFICATION			
1.1	Product identifiers Product name	[:] Trioctyl trimellitate			
	Product Number Brand	: 538140 : Aldrich			
	CAS-No.	: 3319-31-1			
1.2	Relevant identified uses of the substance or mixture and uses advised against				
	Identified uses	: Laboratory chemicals, Manufacture of substances			
1.3	Details of the supplier of the safety data sheet				
	Company	: Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA			
	Telephone Fax	: +1 800-325-5832 : +1 800-325-5052			
1.4	Emergency telephone r	umber			
	Emergency Phone #	: +1-703-527-3887 (CHEMTREC)			
2. HA	AZARDS IDENTIFICATION				
2.1	Classification of the su	ostance or mixture			
2.2	GHS Label elements, in	cluding precautionary statements			
	Not a hazardous substan	ce or mixture.			
2.3	Hazards not otherwise	classified (HNOC) or not covered by GHS - none			
3. CC	OMPOSITION/INFORMATI	ON ON INGREDIENTS			
3.1	Substances Synonyms	: Tris(2-ethylhexyl) trimellitate TOTM			
	Formula	: C ₃₃ H ₅₄ O ₆			
	Molecular weight CAS-No. EC-No.	: 546.78 g/mol : 3319-31-1 : 222-020-0			
	No components need to be disclosed according to the applicable regulations.				
4. FIRST AID MEASURES					
4.1	Description of first aid	neasures			

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** 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** No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

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

- 5.2 Special hazards arising from the substance or mixture Nature of decomposition products not known.
- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information No data available

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures Avoid breathing vapours, mist or gas. For personal protection see section 8.
- 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 For disposal see section 13.

7. HANDLING AND STORAGE

- **7.1 Precautions for safe handling** For precautions see section 2.2.
- **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) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls General industrial hygiene practice.

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

Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: viscous Colour: light yellow
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	Melting point/freezing point: -43 °C (-45 °F)
f)	Initial boiling point and boiling range	414 °C (777 °F) at 1,013 hPa (760 mmHg)
g)	Flash point	263 °C (505 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 2.5 %(V) Lower explosion limit: 0.26 %(V)
k)	Vapour pressure	< 0.001 hPa (< 0.001 mmHg) at 25 °C (77 °F)
I)	Vapour density	No data available
m)	Relative density	0.988 g/cm3 at 20 °C (68 °F)
n)	Water solubility	0.1 g/l at 25 °C (77 °F) - insoluble
o)	Partition coefficient: n- octanol/water	log Pow: 8.88 at 55 °C (131 °F)
p)	Auto-ignition temperature	410 °C (770 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	312.64 mm2/s at 20 °C (68 °F) -
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available
500	440	

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

- **10.2 Chemical stability** Stable under recommended storage 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** Other decomposition products - No data available In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - male and female - > 5,000 mg/kg (OECD Test Guideline 401)

LC50 Inhalation - Rat - male and female - 4 h - > 2.6 mg/l (OECD Test Guideline 403)

LD50 Dermal - Rabbit - male and female - > 1,976 mg/kg

No data available

Skin corrosion/irritation

Skin - Rabbit Result: No skin irritation - 24 h

Serious eye damage/eye irritation

Eyes - Rabbit Result: No eye irritation - 7 d

Respiratory or skin sensitisation

Buehler Test - Guinea pig Did not cause sensitisation on laboratory animals. (OECD Test Guideline 406)

Germ cell mutagenicity

S. typhimurium Result: negative

Carcinogenicity

- 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
- 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.

Reproductive toxicity

No data available

No data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available

Additional Information

Repeated dose toxicity - Rat - male and female - Oral - No observed adverse effect level - 1,000 mg/kg RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

	-	
	Toxicity to fish	semi-static test LC50 - Oryzias latipes - > 100 mg/l - 96 h (OECD Test Guideline 203)
	Toxicity to daphnia and other aquatic invertebrates	Immobilization - Daphnia magna (Water flea) - > 180 mg/l - 48 h (OECD Test Guideline 202)
	Toxicity to algae	Growth inhibition EC50 - Pseudokirchneriella subcapitata - > 100 mg/l - 72 h (OECD Test Guideline 201)
12.2	Persistence and degrad Biodegradability	lability aerobic - Exposure time 28 d Result: 46.8 % - Not readily biodegradable.
	Biochemical Oxygen Demand (BOD)	60 mg/g Concentration: 100 mg/l
	Chemical Oxygen Demand (COD)	2,370 mg/g
12.3	Bioaccumulative potent Bioaccumulation	tial Cyprinus carpio (Carp) - 42 d - 0.2 mg/l Bioconcentration factor (BCF): 1 - 2.7
		Cyprinus carpio (Carp) - 42 d - 2 mg/l
		Bioconcentration factor (BCF): 0.1 - 0.23
12.4	Mobility in soil Adsorbs on soil.	
12.5	Results of PBT and vPv	R assessment

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

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

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

IMDG

IATA

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

r ennsylvania right to rinow components	CAS-No.	Revision Date
Tris(2-ethylhexyl) benzene-1,2,4-tricarboxylate	3319-31-1	
New Jersey Right To Know Components		
Tris(2-ethylhexyl) benzene-1,2,4-tricarboxylate	CAS-No. 3319-31-1	Revision Date

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

HMIS Rating Health hazard:	0
Chronic Health Hazard: Flammability: Physical Hazard	1 0
NFPA Rating Health hazard:	0
Fire Hazard:	1
Reactivity Hazard:	0

Further information

Copyright 2015 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only. 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. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation Product Safety – Americas Region 1-800-521-8956

Version: 3.6

Revision Date: 01/14/2015

Print Date: 10/19/2018