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ALFAAB23003

# 1,2,4-Benzenetricarboxylic anhydride

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

产品说明:	1,2,4-苯三酸酐
Product Description:	1,2,4-Benzenetricarboxylic anhydride
Cat No. :	<b>B23003</b>
Synonyms	Trimellitic anhydride
CAS No	552-30-7
Molecular Formula	C9 H4 O5
Supplier	Avocado Research Chemicals Ltd. (Part of Thermo Fisher Scientific) Shore Road, Heysham Lancashire, LA3 2XY, United Kingdom Office Tel: +44 (0) 1524 850506 Office Fax: +44 (0) 1524 850608
Emergency Telephone Number	For information <b>US</b> call: 001-800-227-6701 / <b>Europe</b> call: +32 14 57 52 11 Emergency Number <b>US</b> :001-201-796-7100 / <b>Europe:</b> +32 14 57 52 99 <b>CHEMTREC</b> Tel. No. <b>US</b> :001-800-424-9300 / <b>Europe:</b> 001-703-527-3887
E-mail address	begel.sdsdesk@thermofisher.com
Recommended Use	Laboratory chemicals.
Uses advised against	No Information available

## **SECTION 2. HAZARD IDENTIFICATION**

Physical State Solid	Appearance Off-white	No inform	<b>Odor</b> nation availa	able
	Emergency Overview			

May be harmful if swallowed. May cause an allergic skin reaction. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Moisture sensitive.

### Classification of the substance or mixture

Acute Oral Toxicity	Category 5
Serious Eye Damage/Eye Irritation	Category 1
Respiratory Sensitization	Category 1
Skin Sensitization	Category 1
Specific target organ toxicity - (single exposure)	Category 3

Label Elements



## 1,2,4-Benzenetricarboxylic anhydride

#### Signal Word

#### Danger

#### Hazard Statements

H303 - May be harmful if swallowed

H317 - May cause an allergic skin reaction

- H318 Causes serious eye damage
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 - May cause respiratory irritation

#### **Precautionary Statements**

#### Prevention

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P270 - Do not eat, drink or smoke when using this product

P271 - Use only outdoors or in a well-ventilated area

P272 - Contaminated work clothing should not be allowed out of the workplace

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P284 - In case of inadequate ventilation wear respiratory protection

#### Response

P302 + P352 - IF ON SKIN: Wash with plenty of soap and 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

P310 - Immediately call a POISON CENTER or doctor

P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor

P362 + P364 - Take off contaminated clothing and wash it before reuse

#### Storage

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

#### Physical and Chemical Hazards

## None identified.

Health Hazards

May be harmful if swallowed. May cause an allergic skin reaction. Corrosive. Causes eye burns. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

## Environmental hazards

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants. Is not likely mobile in the environment. Decomposes in contact with water.

This product does not contain any known or suspected endocrine disruptors.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight %
Trimellitic anhydride	552-30-7	97

### **SECTION 4. FIRST AID MEASURES**

#### Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

#### Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.

#### Inhalation

Remove to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention.

### 1,2,4-Benzenetricarboxylic anhydride

## Ingestion

Do NOT induce vomiting. Get medical attention.

#### Most important symptoms and effects

Causes eye burns. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. . Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

#### Self-Protection of the First Aider

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

## Notes to Physician

Treat symptomatically.

## **SECTION 5. FIRE-FIGHTING MEASURES**

#### Suitable Extinguishing Media

Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

#### Extinguishing media which must not be used for safety reasons

No information available.

#### **Specific Hazards Arising from the Chemical**

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### **Personal Precautions**

Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clothing.

## **Environmental Precautions**

Avoid release to the environment.

#### Methods for Containment and Clean Up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

Refer to protective measures listed in Sections 8 and 13.

## **SECTION 7. HANDLING AND STORAGE**

#### Handling

Use only under a chemical fume hood. Wear personal protective equipment/face protection. Avoid dust formation. Do not breathe (dust, vapor, mist, gas). Do not get in eyes, on skin, or on clothing. Do not ingest. If swallowed then seek immediate medical assistance.

#### Storage

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

## Specific Use(s)

Use in laboratories

#### 1,2,4-Benzenetricarboxylic anhydride

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Control Parameters**

Component	China	Taiwan		Т	hailand	Hong Kong
Trimellitic anhydride	-	TWA: 0.005	ppm			-
-		TWA: 0.04 n	ng/m <sup>3</sup>			
Component	ACGIH TLV	OSHA PEL	NIO	SH	The United Kingdor	n European Union
Trimellitic anhydride	TWA: 0.0005 mg/m <sup>3</sup>	(Vacated) TWA: 0.005	TWA: 0.0	)05 ppm	STEL: 0.12 mg/m3 1	5
-	STEL: 0.002 mg/m <sup>3</sup>	ppm	TWA: 0.0	4 mg/m <sup>3</sup>	min	
	Skin	(Vacated) TWA: 0.04		-	TWA: 0.04 mg/m <sup>3</sup> 8 h	nr
		mg/m <sup>3</sup>			Resp. Sens.	

<u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration NIOSH: NIOSH - National Institute for Occupational Safety and Health

#### Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust

## Exposure Controls

#### **Engineering Measures**

Use only under a chemical fume hood. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source.

#### Personal protective equipment

Eye Protection	Goggles	(European standard	- EN 166)	
Hand Protection	Protectiv	ve gloves		
Glove material Natural rubber Butyl rubber Nitrile rubber Neoprene PVC	Breakthrough time See manufacturers recommendations	Glove thickness	EU standard EN 374	Glove comments (minimum requirement)

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure
Respiratory Protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly
Large scale/emergency use	Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced <b>Recommended Filter type:</b> Particulates filter conforming to EN 143

## 1,2,4-Benzenetricarboxylic anhydride

Small scale/Laboratory use	Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. <b>Recommended half mask:-</b> Valve filtering: EN405; or; Half mask: EN140; plus filter, EN 141 When RPE is used a face piece Fit Test should be conducted
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	No information available.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance Physical State	Off-white Solid	
Odor Odor Threshold pH Melting Point/Range Softening Point Boiling Point/Range Flash Point Evaporation Rate Flammability (solid,gas) Explosion Limits	No information available No data available No information available 164 - 169 °C / 327.2 - 336.2 °F No data available 390 °C / 734 °F 227 °C / 440.6 °F Not applicable No information available Lower 1 Upper 7	@ 760 mmHg <b>Method -</b> No information available Solid
Vapor Pressure Vapor Density Specific Gravity / Density Bulk Density Water Solubility Solubility in other solvents	<0.01 mbar @ 20 °C Not applicable No data available No data available Decomposes in contact with water No information available	Solid
Partition Coefficient (n-octanol/wat Component Trimellitic anhydride Autoignition Temperature Decomposition Temperature Viscosity Explosive Properties Oxidizing Properties	er) log Pow 0.06 No data available No data available Not applicable No information available No information available	Solid
Molecular Formula Molecular Weight	C9 H4 O5 192.13	

## SECTION 10. STABILITY AND REACTIVITY

Stable under normal conditions. Moisture sensitive.
No information available. Hazardous polymerization does not occur.
Avoid dust formation. Incompatible products. Exposure to moist air or water.
Strong oxidizing agents. Strong acids. Strong bases.

Hazardous Decomposition Products Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

1,2,4-Benzenetricarboxylic anhydride

## SECTION 11. TOXICOLOGICAL INFORMATION

## **Product Information**

Component         LD50 Oral         LD50 Dermal         LC50 Inhalation           Trimellitic anhydride         LD50 = 2030 mg/kg (Rat)         LD50 > 2000 mg/kg (Rabbit)         LC50 > 2.33 mg/L (Rat)           (b) skin corrosion/irritation;         No data available         (c) serious eye damage/irritation;         Category 1           (d) respiratory or skin sensitization;         Category 1         Category 1         (available           (f) caspiratory or skin sensitization;         Category 1         May cause sensitization by skin contact         (e) germ cell mutagenicity;         No data available           (f) carcinogenicity;         No data available         There are no known carcinogenic chemicals in this product           (g) reproductive toxicity;         No data available         (h) STOT-single exposure;         Category 3           Results / Target organs         Respiratory system         (i) STOT-repeated exposure;         No data available           (i) aspiration hazard;         No information available.         (i) aspiration hazard;         Not applicable           Solid         Other Adverse Effects         The toxicological properties have not been fully investigated.           Symptoms / effects,both acute and         Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, it delayed           Other Adverse Effects         The toxicological properties have not been fully inves	(a) acute toxicity;			
(b) skin corrosion/irritation;       No data available         (c) serious eye damage/irritation;       Category 1         (d) respiratory or skin sensitization;       Category 1         Skin       Category 1         Skin       Category 1         May cause sensitization by skin contact         (e) germ cell mutagenicity:       No data available         (f) carcinogenicity;       No data available         (g) reproductive toxicity;       No data available         (h) STOT-single exposure;       Category 3         Results / Target organs       Respiratory system         (i) STOT-repeated exposure;       No data available         Target Organs       No information available.         (j) aspiration hazard;       No data available         Solid       Other Adverse Effects         Symptoms / effects,both acute and       Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, it delayed         of the hands and feet, dizzines, lightheadedness, chest pain, muscle pain or flushing         SECTION 12. ECOLOGICAL INFORMATION         Ecotoxicity effects       Reacts with water so no ecotoxicity data for the substance is available.				
(c) serious eye damage/irritation;       Category 1         (d) respiratory or skin sensitization;       Respiratory         Respiratory       Category 1         Skin       Category 1         May cause sensitization by skin contact       (e) germ cell mutagenicity;         No data available       There are no known carcinogenic chemicals in this product         (g) reproductive toxicity;       No data available         (h) STOT-single exposure;       Category 3         Results / Target organs       Respiratory system         (i) STOT-repeated exposure;       No data available         Target Organs       No information available.         (j) aspiration hazard;       Not applicable         Solid       The toxicological properties have not been fully investigated.         Symptoms / effects,both acute and       Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, ti of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing         Ecotoxicity effects       Reacts with water so no ecotoxicity data for the substance is available.         Persistence and Degradability       Expected to be biodegradable	l rimeilitic annydride	LD50 = 2030  mg/kg (Rat)	LD50 > 2000  mg/kg (Rabbit)	LC50 > 2.33  mg/L (Rat) 4  n
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Target Organs       No information available.         (j) aspiration hazard;       Not applicable Solid         Other Adverse Effects       The toxicological properties have not been fully investigated.         Symptoms / effects,both acute and delayed       Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, to of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing         Ecotoxicity effects       Reacts with water so no ecotoxicity data for the substance is available.         Persistence and Degradability       Expected to be biodegradable	Results / Target organs	Respiratory system		
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Ecotoxicity effects       Reacts with water so no ecotoxicity data for the substance is available.         Persistence and Degradability       Expected to be biodegradable		SECTION 12 ECOLOGIC		
	Ecotoxicity effects			available.
PersistencePersistence is unlikely, based on information available.DegradabilityDecomposes in contact with water.Degradation in sewage treatment plantNo information available. Decomposes in contact with water.	Persistence Degradability Degradation in sewage	Persistence is unlikely, based Decomposes in contact with w	on information available. vater.	
Bioaccumulative Potential Product does not bioaccumulate due to reaction with water	Bioaccumulative Potential	Product does not bioaccumula	ate due to reaction with water	

## 1,2,4-Benzenetricarboxylic anhydride

Component	log Pow	Bioconcentration factor (BCF)
Trimellitic anhydride	0.06	No data available
	0.00	

Mobility in soil	Decomposes in contact with water Is not likely mobile in the environment					
Endocrine Disruptor Information Persistent Organic Pollutant Ozone Depletion Potential	This product does not contain any known or suspected endocrine disruptors This product does not contain any known or suspected substance This product does not contain any known or suspected substance					
SECTION 13. DISPOSAL CONSIDERATIONS						
Waste from Residues/Unused Products	Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.					
Contaminated Packaging	Dispose of this container to hazardous or special waste collection point.					
Other Information	Waste codes should be assigned by the user based on the application for which the prod was used. Do not empty into drains. Do not flush to sewer.					
SECTION 14. TRANSPORT INFORMATION						
Road and Rail Transport	Not Regulated					
IMDG/IMO	Not regulated					
IATA	Not regulated					
Special Precautions for User	No special precautions required					
SECTION 15. REGULATORY INFORMATION						

## International Inventories

X = listed, China (IECSC), Europe (EINECS/ELINCS/NLP), U.S.A. (TSCA), Canada (DSL/NDSL), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), Korea (KECL).

		List of dangerous goods GB 12268 - 2012	TCSI	IECSC	EINECS	TSCA	DSL	PICCS	ENCS	ISHL	AICS	KECL
Trimellitic anhydride	-	-	Х	Х	209-008-0	Х	Х	Х	Х	Х	Х	KE-10640

## **National Regulations**

## **SECTION 16. OTHER INFORMATION**

Prepared By

Health, Safety and Environmental Department

**Creation Date** 

# SAFETY DATA SHEET

1,2,4-Benzenetricarboxylic anhydride

07-Nov-2014

Revision Date25-Apr-2024Revision SummaryNew emergency telephone response service provider.							
hygiene.	covering appropriate selec	ety Data Sheets (SDS), Personal Protective Equipment (PPE) and ction, compatibility, breakthrough thresholds, care, maintenance, fit d safety showers.					
	Lec	gend					
CAS - Chemical Abstracts Service EINECS/ELINCS - European Inventory of Ex Substances/EU List of Notified Chemical Sul PICCS - Philippines Inventory of Chemicals a IECSC - Chinese Inventory of Existing Chem KECL - Korean Existing and Evaluated Chem	ostances and Chemical Substances nical Substances	<ul> <li>TSCA - United States Toxic Substances Control Act Section 8(b) Inventory</li> <li>al DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List</li> <li>ENCS - Japanese Existing and New Chemical Substances</li> <li>AICS - Australian Inventory of Chemical Substances</li> <li>NZIOC - New Zealand Inventory of Chemicals</li> </ul>					
WEL - Workplace Exposure Limit ACGIH - American Conference of Governme DNEL - Derived No Effect Level RPE - Respiratory Protective Equipment LC50 - Lethal Concentration 50% NOEC - No Observed Effect Concentration PBT - Persistent, Bioaccumulative, Toxic	ental Industrial Hygienists	<ul> <li>TWA - Time Weighted Average</li> <li>IARC - International Agency for Research on Cancer</li> <li>PNEC - Predicted No Effect Concentration</li> <li>LD50 - Lethal Dose 50%</li> <li>EC50 - Effective Concentration 50%</li> <li>POW - Partition coefficient Octanol:Water</li> <li>vPvB - very Persistent, very Bioaccumulative</li> </ul>					
ICAO/IATA - International Civil Aviation Orga Transport Association ADR - European Agreement Concerning the Dangerous Goods by Road OECD - Organisation for Economic Co-opers	International Carriage of	IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code MARPOL - International Convention for the Prevention of Pollution from Ships ATE - Acute Toxicity Estimate					

OECD - Organisation for Economic Co-operation and Development BCF - Bioconcentration factor

## Key literature references and sources for data

https://echa.europa.eu/information-on-chemicals Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

ATE - Acute Toxicity Estimate VOC - (Volatile Organic Compound)

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# **End of Safety Data Sheet**