

SDS Service Summary

No. SHAEC2210902301

Date: 1 Aug 2022 Page 1 of 1

SGS Job No. : SP22-015879-SH
Applicant : Anhui Taida New Materials Co.Ltd.
Product Name : Trimellitic Anhydride
Composition/Ingredient of product (as per applicant submission) : See section 3 Composition/information on ingredients on the SDS
Job Receiving Date : 27 Jul 2022
Last Information Date : 29 Jul 2022
SDS Preparation Period : 27 Jul 2022-01 Aug 2022

Service Requested : Preparation of Safety Data Sheet (SDS) for the product with submitted information, with calculation of the classification and labeling requirement according to the submitted composition and European Commission Regulation (EC) No 1272/2008.

Summary : As per request, the contents and formats of the SDS are prepared in accordance with European Commission Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008 and Regulation (EU) No 2020/878, and is provided per attached.

Remark:

The contents of this SDS is prepared as per client's request.

Disclaimer

This Safety Data Sheet (SDS) is provided to applicant to fulfill European Commission Regulation (EC) No 1907/2006 and communicate the hazard information of chemicals through the supply chain to ensure safe use. It is not a test report or a certificate ensuring the safety of a product.

SGS has consolidated product information based on documents provided by Applicant (i.e. product name, the supplier details, product composition, available physical data, etc) without independent verification from SGS. The information is provided without any warranty, express or implied, regarding its correctness.



Echo Cai
Project Engineer

Safety data sheet

Regulation (EC) No.1907/2006 and No.1272/2008

Printing date 01.08.2022




Version number 1

Revision date 28.07.2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** *Trimellitic Anhydride*
- **CAS Number:**
552-30-7
- **EINECS Number:** 209-008-0
- **Index number:**
607-097-00-4
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:**
Trimellitic Anhydride is mainly used to produce plasticizer such as TOTM, polyester resin for powder coating, polyamide-imide resin for insulating varnish (wire enamel), water-soluble alkyd resin coating, epoxy curing agent, lubricant, etc.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
*Anhui Taida New Materials Co.Ltd.
No.18, Zijin Road, Huizhou Circular Economy Park, Huangshan, Anhui, China
Tel:0559-5221286
E-mail:ellie@td-chem.cn*
- **Only Representative/ other EU contact point:** *Not available*
- **1.4 Emergency telephone number:**
*IRELAND
National Poisons Information Centre
Tel: +353 (01) 809 2566 (For healthcare professionals)
+353 (01) 809 2166 (For public:8am - 10pm)*
- **1.5 Reference Number:** *SP22-015879-SH; SHAEC2210902301*

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
-  **GHS08 health hazard**
Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
-  **GHS05 corrosion**
Eye Dam. 1 H318 Causes serious eye damage.
-  **GHS07**
*Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H335 May cause respiratory irritation.*
- **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of Regulation (EC) No. 1272/2008.
- **Classification system:**
The classification is according to the latest edition of EU Regulation (EC) No. 1272/2008, and extended by company and literature data.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The substance is classified and labelled according to the CLP regulation.

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· Hazard pictograms



GHS05 GHS07 GHS08

· Signal word *Danger***Hazard-determining components of labelling:**

benzene-1,2,4-tricarboxylic acid 1,2-anhydride

· Hazard statements

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

· Precautionary statements

P284 [In case of inadequate ventilation] wear respiratory protection.

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/doctor.

P321 Specific treatment (see on this label).

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

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

· Determination of endocrine-disrupting properties Not applicable

SECTION 3: Composition/information on ingredients

· 3.1 Substances

· CAS No. Description:

552-30-7 benzene-1,2,4-tricarboxylic acid 1,2-anhydride

· Identification number(s): EC No.:209-008-0

· Index number: 607-097-00-4

· Composition:

CAS: 552-30-7 EINECS: 209-008-0 Index number: 607-097-00-4	benzene-1,2,4-tricarboxylic acid 1,2-anhydride ⚠ Resp. Sens. 1, H334; ⚠ Eye Dam. 1, H318; Skin Sens. 1, H317; STOT SE 3, H335 substance with a Union workplace exposure limit	98.0%
CAS: 100-21-0 EINECS: 202-830-0	terephthalic acid substance with a Union workplace exposure limit	0.8%
CAS: 89-05-4 EINECS: 201-879-5	benzene-1,2,4,5-tetracarboxylic acid ⚠ Eye Irrit. 2, H319	0.5%
CAS: 121-91-5 EINECS: 204-506-4	isophthalic acid substance with a Union workplace exposure limit	0.4%
CAS: 569-51-7 EINECS: 209-317-0	Benzene-1,2,3-tricarboxylic acid ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	0.3%

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· **SVHC**

552-30-7 benzene-1,2,4-tricarboxylic acid 1,2-anhydride

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**
Rinse out mouth with water.
Never give anything by mouth to an unconscious person.
Seek medical treatment.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Dry powder and water-based extinguishing agent.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear fully protective suit.
Mouth respiratory protective device.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Avoid formation of dust.
Avoid contact with eyes.
Avoid contact with skin.
Keep away from ignition sources.
Ensure adequate ventilation.
Use respiratory protective device against the effects of fumes/dust/aerosol.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Use neutralising agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Thorough dedusting.

Prevent formation of dust.

Keep receptacles tightly sealed.

Avoid contact with eyes and skin.

Open and handle receptacle with care.

Ensure good ventilation/exhaustion at the workplace.

For the general occupational hygienic measures refer to Section 8.

· **Information about fire - and explosion protection:** Normal measures for preventive fire protection.

· 7.2 Conditions for safe storage, including any incompatibilities

· **Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Store only in the original receptacle.

· **Information about storage in one common storage facility:**

Store away from foodstuffs.

Do not store together with alkaline materials.

Do not store together with oxidising and acidic materials.

· **Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· **Ingredients with limit values that require monitoring at the workplace:**

552-30-7 benzene-1,2,4-tricarboxylic acid 1,2-anhydride

AGW (Germany)	Long-term value: 0.04 A mg/m ³ 1(I);DFG, Sa
VLEP (France)	Long-term value: 0.04 mg/m ³ , 0.005 ppm All
OEL (Ireland)	Short-term value: 0.002 mg/m ³ Long-term value: 0.0005 mg/m ³ Sens

100-21-0 terephthalic acid

AGW (Germany)	Long-term value: 5E mg/m ³ 2(I);Y, DFG
OEL (Ireland)	Long-term value: 10 mg/m ³

121-91-5 isophthalic acid

AGW (Germany)	Long-term value: 5E mg/m ³ 2(I);Y, DFG
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· **Regulatory information**

AGW (Germany): TRGS 900

VLEP (France): ED 1487 05.2021

OEL (Ireland): 2021 CoP for the Safety, Health and Welfare at Work

· **DNELs:** Data not available· **PNECs:** Data not available

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- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure**
- **Appropriate engineering controls**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
See Section 7 for information about design of technical facilities.
- **Individual protection measures, such as personal protective equipment**
- **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Hand protection**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- **Material of gloves:** Nitrile rubber - film thickness: 0.11mm
- **Penetration time of glove material:**
Penetration time >480 min. Observe instructions of penetration and penetration time provided by glove supplier.
- **Eye/face protection**



Tightly sealed goggles

Contact lenses may cause special injuries, and soft contact lenses can absorb and concentrate irritants.

- **Body protection:** Protective work clothing
- **Thermal hazards:** Not required for normal conditions of use.
- **Environmental exposure controls:**
Control measures must be made in accordance with Community environmental protection legislation.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **Physical state** Solid
- **Colour:** White
- **Odour:** Odourless
- **Odour threshold:** Data not available
- **Melting point/freezing point:** 165 °C
- **Boiling point or initial boiling point and boiling range** 390 °C
- **Flammability** Data not available
- **Lower and upper explosion limit**
- **Lower:** Data not available
- **Upper:** Data not available
- **Flash point:** 227 °C

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· Auto-ignition temperature:	Data not available
· Decomposition temperature:	Data not available
· pH	Data not available
· Viscosity:	
· Kinematic viscosity	Data not available
· Dynamic viscosity:	Data not available
· Solubility	
· water:	24.4 g/mL
· Partition coefficient n-octanol/water (log value) at 20 °C	0.006 log POW
· Vapour pressure:	Data not available
· Density and/or relative density	
· Density at 20 °C:	1.49 g/cm ³
· Relative density:	1.49
· Vapour density:	Data not available
· Particle characteristics:	Data not available

· **9.2 Other information**

· Appearance:	
· Form:	Powder

· **Information with regard to physical hazard classes**

· Explosives	Not applicable
· Flammable gases	Not applicable
· Aerosols	Not applicable
· Oxidising gases	Not applicable
· Gases under pressure	Not applicable
· Flammable liquids	Not applicable
· Flammable solids	Not applicable
· Self-reactive substances and mixtures	Not applicable
· Pyrophoric liquids	Not applicable
· Pyrophoric solids	Not applicable
· Self-heating substances and mixtures	Not applicable
· Substances and mixtures, which emit flammable gases in contact with water	Not applicable
· Oxidising liquids	Not applicable
· Oxidising solids	Not applicable
· Organic peroxides	Not applicable
· Corrosive to metals	Not applicable
· Desensitised explosives	Not applicable
· Other safety characteristics	Data not available

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No decomposition if used according to specifications.
- **10.2 Chemical stability** Hygroscopicity.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid**
Prevent overheating. Under strong heating, steam and air form an explosive mixture.
- **10.5 Incompatible materials:** Incompatible with strong acids, bases and oxidizers.
- **10.6 Hazardous decomposition products:**
Carbon monoxide and carbon dioxide are produced in case of fire.

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SECTION 11: Toxicological information

· **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

· **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

552-30-7 benzene-1,2,4-tricarboxylic acid 1,2-anhydride

Oral LD50 5,600 mg/kg (rat)

121-91-5 isophthalic acid

Oral LD50 10,400 mg/kg (rat)

· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.

· **Serious eye damage/irritation** Causes serious eye damage.

· **Respiratory or skin sensitisation**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

· **Carcinogenicity** Based on available data, the classification criteria are not met.

· **Reproductive toxicity** Based on available data, the classification criteria are not met.

· **STOT-single exposure** May cause respiratory irritation.

· **STOT-repeated exposure** Based on available data, the classification criteria are not met.

· **Aspiration hazard** Based on available data, the classification criteria are not met.

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

· **Other information** No further relevant information available.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation:**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging**

· **Recommendation:** Disposal must be made according to official regulations.

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SECTION 14: Transport information

· 14.1 UN number or ID number · ADR/RID/ADN, IMDG, IATA	Not applicable
· 14.2 UN proper shipping name · ADR/RID/ADN, IMDG, IATA	Not applicable
· 14.3 Transport hazard class(es) · ADR/RID/ADN, IMDG, IATA · Class · Label	Not applicable Not applicable
· 14.4 Packing group · ADR/RID/ADN, IMDG, IATA	Not applicable
· 14.5 Environmental hazards	Not applicable.
· 14.6 Special precautions for user	Not applicable.
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· 14.8 Transport/Additional information: · UN "Model Regulation":	Not applicable

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
· Directive 2012/18/EU
· Named dangerous substances - ANNEX I None of the ingredients is listed.
· REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)
None of the ingredients is listed.
· Regulation (EU) No 649/2012
None of the ingredients is listed.
· REGULATION (EU) 2019/1148
· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.
· Annex II - REPORTABLE EXPLOSIVES PRECURSORS
None of the ingredients is listed.
· Regulation (EC) No 273/2004 on drug precursors
None of the ingredients is listed.
· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors
None of the ingredients is listed.
· REGULATION (EC) No 1005/2009 on substances that deplete the ozone layer – ANNEX I (Ozone-depleting potential)
None of the ingredients is listed.
· Other regulations, limitations and prohibitive regulations
· SVHC Candidate List of REACH Regulation Annex XIV Authorisation (17/1/2022)
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· **REACH Regulation Annex XVII Restriction (13/12/2021)**
See Section 16 for information about restriction of use.

None of the ingredients is listed.

· **REACH Regulation Annex XIV Authorisation List (23/11/2021)**

None of the ingredients is listed.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

· **Relevant hazard statements**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

· *****

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2020/878.

DISCLAIMER OF LIABILITY :

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)LC50:

Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and ToxicSVHC:

Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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