



## Design Report of Safety Data Sheet

Report No.: DG2012383E

Date: 2020/11/24



<b>Name of the sample</b>	tert-Butyl Peroxy Benzoate		
<b>Applicant</b>	Wuxi High Mountain Hi-tech Development Co., Ltd		
<b>Supplier</b>	Wuxi High Mountain Hi-tech Development Co., Ltd		
<b>Composition of the sample</b>	tert-Butyl Peroxy Benzoate: $\geq 98\%$		
<b>Warranty of Design</b>	GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) Eighth revised edition		
Design Result of SDS please see next page.			
<b>Designer</b>	华雯	<b>Approver</b>	王红平

Notes: This SDS is valid before the implementation of the ninth revised edition GHS.



# SAFETY DATA SHEET

## tert-Butyl Peroxy Benzoate

Wuxi High Mountain Hi-tech Development Co., Ltd.

- According to GHS (Eighth Revised Edition)

# SDS

### Section 1 Product and Company Identification

#### > Product Identifier

Product Name	tert-Butyl Peroxy Benzoate
Synonyms	-
CAS No.	614-45-9
EC No.	210-382-2
Molecular Formula	C <sub>11</sub> H <sub>14</sub> O <sub>3</sub>

#### > Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Relevant Identified Uses	Please consult manufacturer.
Uses Advised Against	Please consult manufacturer.

#### > Details of the Supplier of the Safety Data Sheet

Applicant Name	Wuxi High Mountain Hi-tech Development Co., Ltd.
Application Address	No.1406,Building 3, Financial 3rd Streed,Wuxi, China
Applicant Post Code	214062
Applicant Telephone	+86-510-85881805
Applicant Fax	+86-510-85883515
Applicant E-mail	VICMAX1@163.COM
Manufacturer Name	Wuxi High Mountain Hi-tech Development Co., Ltd.
Manufacturer Address	No.1406,Building 3, Financial 3rd Streed,Wuxi, China
Manufacturer Post	214062
Manufacturer Telephone	+86-510-85881805
Manufacturer Fax	+86-510-85883515
Manufacturer E-mail	VICMAX1@163.COM

#### > Emergency Phone Number

Emergency Phone Number	+86-532-83889090
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### Section 2 Hazards Identification

Hazard class and label elements of the product according to GHS (the eighth revised edition):

#### > GHS Hazard Class

Organic Peroxides	Type C
Acute Toxicity – Oral	Category 4

<b>Skin Corrosion/Irritation</b>	Category 2
<b>Sensitization – Skin</b>	Category 1
<b>Acute Toxicity – Inhalation</b>	Category 4
<b>Hazardous To The Aquatic Environment – Short-Term (Acute) Hazard</b>	Category 1
<b>Hazardous To The Aquatic Environment – Long-Term (Chronic) Hazard</b>	Category 3

### > GHS Label Elements

#### Pictogram



#### Signal Word

**Danger**

### > Hazard Statements

H242	Heating may cause a fire
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H332	Harmful if inhaled
H400	Very toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects

### > Precautionary Statements

#### Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P234	Keep only in original packaging.
P235	Keep cool.
P240	Ground and bond container and receiving equipment.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash contact area thoroughly after handling.
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.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

#### Response

P317	Get medical help.
P321	Specific treatment (see measures on this label).
P330	Rinse mouth.
P391	Collect spillage.

<b>P301+P317</b>	IF SWALLOWED: Get medical help.
<b>P302+P352</b>	IF ON SKIN: Wash with plenty of water.
<b>P304+P340</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
<b>P332+P317</b>	If skin irritation occurs; Get medical help.
<b>P333+P317</b>	If skin irritation or rash occurs: Get medical help.
<b>P362+P364</b>	Take off contaminated clothing and wash it before reuse.
<b>P370+P378</b>	In case of fire: Use suitable extinguishing medium to extinguish.
<b>Storage</b>	
<b>P403</b>	Store in a well-ventilated place.
<b>P410</b>	Protect from sunlight.
<b>P411</b>	Store at temperatures not exceeding 30°C/86°F.
<b>P420</b>	Store separately.
<b>Disposal</b>	
<b>P501</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.

### Section 3 Composition/Information on Ingredients

Component	Concentration (weight percent, %)	CAS No.	EC No.
tert-Butyl Peroxy Benzoate	≥ 98	614-45-9	210-382-2

### Section 4 First Aid Measures

#### > Description of First Aid Measures

<b>General Advice</b>	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
<b>Skin Contact</b>	Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
<b>Ingestion</b>	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
<b>Inhalation</b>	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
<b>Protecting of First-aiders</b>	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

#### > Most Important Symptoms and Effects, both Acute and Delayed

- 1 Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

#### > Indication of Any Immediate Medical Attention and Special Treatment Needed

- 1 Treat symptomatically.
- 2 Symptoms may be delayed.

### Section 5 Fire Fighting Measures

#### > Extinguishing Media

<b>Suitable Extinguishing Media</b>	Water (spray-not splash), Dry extinguishing powder, Alcohol resistant foam, Sand. Fight large fire with alcohol resistant foam or water spray.
<b>Unsuitable Extinguishing Media</b>	Do not use a solid water stream as it may scatter or spread fire.

### > Specific Hazards Arising from the Substance or Mixture

- 1 Containers may explode when heated.
- 2 Fire exposed containers may vent contents through pressure relief valves.
- 3 May expansion or decompose explosively when heated or involved in fire.

### > Advice for Firefighters

- 1 As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 Fight fire from a safe distance, with adequate cover.
- 3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

## Section 6 Accidental Release Measure

### > Personal Precautions, Protective Equipment and Emergency Procedures

- 1 Ensure adequate ventilation. Remove all sources of ignition.
- 2 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- 3 Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

### > Environmental Precautions

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

### > Methods and Materials for Containment and Cleaning Up

- 1 Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- 2 Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
- 3 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

## Section 7 Handling and Storage

### > Precautions for Handling

- 1 Handling is performed in a well ventilated place.
- 2 Wear suitable protective equipment.
- 3 Avoid contact with skin and eyes.
- 4 Keep away from heat/sparks/open flames/ hot surfaces.
- 5 Take precautionary measures against static discharges.

### > Precautions for Storage

- 1 Keep containers tightly closed.
- 2 Keep containers in a dry, cool and well-ventilated place.
- 3 Keep away from heat/sparks/open flames/ hot surfaces.
- 4 Store away from incompatible materials and foodstuff containers.

**> Control Parameters****Section 8 Exposure Controls/Personal Protection****Occupational Exposure Limit Values**

No information available

**Biological Limit Values**

No information available

**Monitoring Methods**

- 1 EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
- 2 GBZ/T 160 Determination of toxic substances in workplace air(Series effective standard)and GBZ/T 300 Determination of toxic substances in workplace air(Series standard).

**> Engineering Controls**

- 1 Ensure adequate ventilation, especially in confined areas.
- 2 Ensure that eyewash stations and safety showers are close to the workstation location.
- 3 Use explosion-proof electrical/ventilating/lighting/equipment.
- 4 Set up emergency exit and necessary risk-elimination area.

**> Personal Protection Equipment**

<b>Eye Protection</b>	Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).
<b>Hand Protection</b>	Wear protective gloves (such as butyl rubber) , passing the tests according to EN 374(EU),US F739 or AS/NZS 2161.1 standard.
<b>Respiratory protection</b>	If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.
<b>Skin and Body Protection</b>	Wear fire/flame resistant/retardant clothing and antistatic boots.

**Section 9 Physical and Chemical Properties**

<b>Appearance:</b> Light yellow transparent oily liquid	<b>Odor:</b> No information available
<b>Odor Threshold:</b> No information available	<b>pH:</b> No information available
<b>Melting Point/Freezing Point (°C):</b> 8	<b>Initial Boiling Point and Boiling Range (°C):</b> No information available
<b>Flash Point (°C)( Closed Cup):</b> 98	<b>Evaporation Rate:</b> No information available
<b>Flammability:</b> Not applicable	<b>Upper/lower explosive limits[% (v/v)]:</b> Upper limit: No information available; Lower limit: No information available
<b>Vapor Pressure (KPa):</b> 43pa (50°C)	<b>Relative Vapour Density(Air = 1):</b> No information available
<b>Relative Density(Water=1):</b> 1.04	<b>Solubility:</b> 100mg/l (20 °C)
<b>n-Octanol/Water Partition Coefficient:</b> 3	<b>Auto-Ignition Temperature(°C):</b> No information available
<b>Decomposition Temperature (°C):</b> No information available	<b>Kinematic Viscosity (mm<sup>2</sup>/s):</b> No information available
<b>Particle characteristics:</b> Not applicable	

**Section 10 Stability and Reactivity**

<b>Reactivity</b>	Contact with incompatible substances can cause decomposition or other
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	chemical reactions.
<b>Chemical Stability</b>	Stable under proper operation and storage conditions.
<b>Possibility of Hazardous Reactions</b>	No information available
<b>Conditions to Avoid</b>	Incompatible materials, heat, flame and spark.
<b>Incompatible Materials</b>	No information available
<b>Hazardous Decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11 Toxicological Information

### > Acute Toxicity

Component	CAS No.	LD <sub>50</sub> (Oral)	LD <sub>50</sub> (Dermal)	LC <sub>50</sub> (Inhalation, 4h)
tert-Butyl Peroxy Benzoate	614-45-9	1012mg/kg(Rat)	No information available	No information available

### > Skin Corrosion/Irritation

Causes skin irritation(Category 2)(tert-Butyl Peroxy Benzoate)

### > Serious Eye Damage/Irritation

No information available

### > Skin Sensitization

May cause an allergic skin reaction(Category 1)(tert-Butyl Peroxy Benzoate)

### > Respiratory Sensitization

No information available

### > Germ Cell Mutagenicity

No information available

### > Carcinogenicity

ID	CAS No.	Component	IARC	NTP
1	614-45-9	tert-Butyl Peroxy Benzoate	Not Listed	Not Listed

### > Reproductive Toxicity

No information available

### > Reproductive Toxicity (Additional)

No information available

### > STOT-Single Exposure

No information available

**> STOT-Repeated Exposure**

No information available

**> Aspiration Hazard**

No information available

**Section 12 Ecological Information****> Acute Aquatic Toxicity**

No information available

**> Chronic Aquatic Toxicity**

No information available

**> Others****Persistence and Degradability** No information available**Bioaccumulative Potential** No information available**Mobility in Soil** No information available**Results of PBT and vPvB Assessment** tert-Butyl Peroxy Benzoate does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.**Section 13 Disposal Considerations****Waste Chemicals**

Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.

**Contaminated Packaging Disposal Recommendations**

Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible. Refer to section 13.1 and 13.2.

**Section 14 Transport Information****Transporting Label****Marine pollutant**

Yes

**UN Number**

3103

**UN Proper Shipping Name**

ORGANIC PEROXIDE TYPE C, LIQUID

**Transport Hazard Class**

5.2

**Transport Subsidiary Hazard Class**

NONE

**Packing Group**

Meet the class II packaging requirements



## &gt; International Chemical Inventory

## Section 15 Regulatory Information

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
tert-Butyl Peroxy Benzoate	√	√	√	√	√	√	√	√	√

【EINECS】 European Inventory of Existing Commercial Chemical Substances.

【TSCA】 United States Toxic Substances Control Act Inventory.

【DSL】 Canadian Domestic Substances List.

【IECSC】 China Inventory of Existing Chemical Substances.

【NZIoC】 New Zealand Inventory of Chemicals.

【PICCS】 Philippines Inventory of Chemicals and Chemical Substances.

【KECI】 Existing and Evaluated Chemical Substances.

【AICS】 Australia Inventory of Chemical Substances.

【ENCS】 Existing And New Chemical Substances.

## Note

"√" Indicates that the substance included in the regulations

"x" That no data or included in the regulations

## Section 16 Additional Information

Creation Date	2020/11/24
Revision Date	2020/11/24
Reason for Revision	-

## &gt; Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 8th revised edition). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.



## Terms of the Using of the Report

1. The report is issued by DPTC according to the information of the chemicals and the information of its shipping provided by the applicant (shipper or his agent).
2. According to the demand of this SDS, DPTC requires the applicant to provide true and exact sample and data.
3. Information from applicant is the key of this Label, so the center will not respond for the wrong of applicant.
4. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.
5. This report will be effective only after it is signed by the inspector, approver and stamped by DPTC.
6. Our center guarantees the objectivity and fairness of this report, and carries out confidentiality obligations on business secrets such as business information, technical documents and so on.
7. The partly duplicating of this report is prohibited without the written approver of DPTC.
8. The report is invalid when anything of the following happens-illegal transfer, embezzlement, imposture, modification or tampering in any media form.
9. The authenticity of the certificate can be checked by scanning the QR code of this certificate.

