

南京海关危险货物与包装检测中心 国家化学品分类鉴别与评估重点实验室





Design Report of Safety Data Sheet

		Date: 2020/11/24				
Name of the sample	Di Tert-Butyl Peroxide	在验检测专用章				
Applicant	Wuxi High Mountain Hi-tech Develop	oment Co., Ltd				
Supplier	Wuxi High Mountain Hi-tech Development Co., Ltd					
Composition of the sample	Di Tert-Butyl Peroxide: ≥ 98%					
Warranty of Design	GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) Eighth revised edition					
	Design Result of SDS please se	ee next page.				
Designer	华雯 App	prover I I I				

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

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Effective Date: 2020/11/24 DG2061606E

SAFETY DATA SHEET

Di Tert-Butyl Peroxide

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

According to GHS (Eighth Revised Edition)



Section 1 Product and Company Identification

> Product Identifier

Product Name Di Tert-Butyl Peroxide

Synonyms

110-05-4 CAS No. EC No. 203-733-6 Molecular Formula C8H18O2

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

Relevant Identified

Uses

Please consult manufacturer.

Please consult manufacturer. **Uses Advised Against**

> Details of the Supplier of the Safety Data Sheet

Wuxi High Mountain Hi-tech Development Co., Ltd. **Applicant Name**

No.1406, Building 3, Financial 3rd Streed, Wuxi, China **Application Address**

214062 **Applicant Post Code**

+86-510-85881805 **Applicant Telephone** +86-510-85883515 **Applicant Fax** VICMAX1@163.COM **Applicant E-mail**

Wuxi High Mountain Hi-tech Development Co., Ltd. **Manufacturer Name**

Manufacturer

Address

No.1406, Building 3, Financial 3rd Streed, Wuxi, China

Manufacturer Post

214062

Manufacturer Telephone

+86-510-85881805

Manufacturer Fax

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Manufacturer E-mail

VICMAX1@163.COM

> Emergency Phone Number

Emergency Phone

+86-532-83889090

Number

Hazards Identification Section 2

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

> GHS Hazard Class

Flammable Liquids Category 2 **Organic Peroxides** Type E

Germ Cell Mutagenicity

Category 2

> GHS Label Elements

Pictogram



Signal Word Danger

> Hazard Statements

H225 Highly flammable liquid and vapour

H242 Heating may cause a fire

H341 Suspected of causing genetic defects

> Precautionary Statements

Prevention

P203 Obtain, read and follow all safety instructions before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P233 Keep container tightly closed.
P234 Keep only in original packaging.

P235 Keep cool.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

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

protection/hearing protection.

Response

P318 IF exposed or concerned, get medical advice.

P370+P378 In case of fire: Use suitable extinguishing medium to extinguish.

P303+P361+P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse

affected areas with water [or shower].

Storage

P403 Store in a well-ventilated place.

P405 Store locked up.

P410 Protect from sunlight.

P411 Store at temperatures not exceeding 30 °C/86 °F.

P420 Store separately.

P403+P235 Store in a well-ventilated place. Keep cool.

Disposal

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

international regulations.

Section 3 Composition/Information on Ingredients

ComponentConcentration (weight percent, %)CAS No.EC No.Di Tert-Butyl Peroxide≥ 98110-05-4203-733-6

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Section 4 First Aid Measures

> Description of First Aid Measures

Immediate medical attention is required. Show this safety data sheet (SDS) to **General Advice**

the doctor in attendance.

Rinse thoroughly with plenty of water for at least 15 minutes and consult a **Eye Contact**

physician if feel uncomfortable.

Take off contaminated clothing and shoes immediately. Wash off with plenty of **Skin Contact**

water for at least 15 minutes and consult a physician if feel uncomfortable. Do not induce vomiting. Never give anything by mouth to an unconscious

Ingestion person. Call a physician or Poison Control Center immediately.

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.

Ensure that medical personnel are aware of the substance involved. Take Protecting of precautions to protect themselves and prevent spread of contamination. **First-aiders**

> Most Important Symptoms and Effects, both Acute and Delayed

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

Suitable Extinguishing

Media

Inhalation

Unsuitable

Extinguishing Media

Water (spray-not splash), Dry extinguishing powder, Alcohol resistant foam,

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

- 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

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

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> 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

Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.

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.

Section 8 Exposure Controls/Personal Protection

> Control Parameters

Occupational Exposure Limit Values

No information available

Biological Limit Values

No information available

Monitoring Methods

EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

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

Eye Protection Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).

Hand Protection Wear protective gloves (such as butyl rubber), passing the tests according to

DG2061606E

EN 374(EU), US F739 or AS/NZS 2161.1 standard.

Respiratory protection

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.

Skin and Protection

Wear fire/flame resistant/retardant clothing and antistatic boots.

Physical and Chemical Properties Section 9

Appearance: Colorless to light yellow transparent

liquid

Odor Threshold: No information available

Body

Melting Point/Freezing Point (°C): -40

Flash Point (°C)(Closed Cup): 12

Flammability: Not applicable

Vapor Pressure (KPa): 2.6

Relative Density(Water=1): 0.8

n-Octanol/Water Partition Coefficient: 1~4

Decomposition Temperature (°C): No information Kinematic Viscosity (mm²/s): No information

available

Particle characteristics: Not applicable

Odor: No information available

pH: No information available

Initial Boiling Point and Boiling Range (°C): 111

Evaporation Rate: No information available

Upper/lower explosive limits[%(v/v)]: Upper limit: No information available; Lower limit: No information

Relative Vapour Density(Air = 1): 5

Solubility: Insoluble in water

Auto-Ignition Temperature(°C): No information

available

available

Section 10 Stability and Reactivity

Contact with incompatible substances can cause decomposition or other Reactivity

chemical reactions.

Chemical Stability

Stable under proper operation and storage conditions.

Possibility of

Hazardous Reactions

No information available

Conditions to Avoid

Incompatible materials, heat, flame and spark.

Incompatible Materials

No information available

Hazardous

products

Decomposition

Under normal conditions of storage and use, hazardous decomposition

products should not be produced.

Section 11 Toxicological Information

> Acute Toxicity

Component	CAS No.	LD ₅₀ (Oral)	LD ₅₀ (Dermal)	LC ₅₀ (Inhalation, 4h)		
Di Tert-Butyl Peroxide	110-05-4	> 25000mg/kg(Rat)	No information available	> 24.52mg/L(Rat)		

No information available

> Serious Eye Damage/Irritation

No information available

> Skin Sensitization

No information available

> Respiratory Sensitization

No information available

> Germ Cell Mutagenicity

Suspected of causing genetic defects(Category 2)(Di Tert-Butyl Peroxide)

> Carcinogenicity

ID	CAS No.	Component	IARC	NTP	
1	110-05-4	Di Tert-Butyl Peroxide	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 Bioaccumulative

No information available

Bioaccumulat Potential No information available

Mobility in Soil

No information available

Results of PBT and vPvB Assessment Di Tert-Butyl Peroxide does not meet the criteria for PBT and vPvB according to

Regulation (EC) No 1907/2006, annex XIII.

DG2061606E Di Tert-Butyl Peroxide

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 Containers may still present chemical hazard when empty. Keep away from hot

and ignition source of fire. Return to supplier for recycling if possible. **Packaging**

Disposal Refer to section 13.1 and 13.2. Recommendations

Section 14 Transport Information

Transporting Label



None Marine pollutant

UN Number 3107

UN Proper Shipping

Name

ORGANIC PEROXIDE TYPE E, LIQUID

Transport Hazard Class 5.2

Transport Subsidiary

Hazard Class

NONE

Meet the class II packaging requirements **Packing Group**

Section 15 Regulatory Information

> International Chemical Inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Di Tert-Butyl Peroxide	√	√	√	√	√	√	√	√	√

European Inventory of Existing Commercial Chemical Substances. [EINECS]

United States Toxic Substances Control Act Inventory. [TSCA]

[DSL] Canadian Domestic Substances List.

China Inventory of Existing Chemical Substances. [IECSC]

New Zealand Inventory of Chemicals. [NZIoC]

Philippines Inventory of Chemicals and Chemical Substances. [PICCS]

Existing and Evaluated Chemical Substances. [KECI] [AICS] Australia Inventory of Chemical Substances.

Existing And New Chemical Substances. [ENCS]

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

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Revision Date

2020/11/24

Reason for Revision

> 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.



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- 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.
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