

Design Report of Safety Data Sheet

Report No. :HGNM2225DH	
Issue date:2022. 03. 21	
Product Name:	BHT;BHT FOOD ADDITIVE;2,6-Di-tert-4-Methylphenol; Butylated hydroxytoluene; 2,6-Di-tert-butyl-p-cresol; DBPC; 2,6-Bis(1,1-dimethylethyl)-4-methylphenol
Applicant:	NANJING DATANG CHEMICALCO. LTD.
Composition of the product:	2,6-Di-tert-4-Methylphenol : 99% ; Water : 1% .
Warranty of Design:	GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) Ninth revised edition
<p align="center">Design Result of SDS please see next page.</p> <p> Designer:  Auditor:  Approver:  </p> <p align="center">  </p> <p align="center"> 常州合规思远产品安全技术有限公司 Changzhou Hegui Siyuan Products Safety Technology Service Co., Ltd. </p>	

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Safety Data Sheet

BHT; BHT FOOD ADDITIVE ; 2,6-Di-tert-4-Methylphenol; Butylated hydroxytoluene; 2,6-Di-tert-butyl-p-cresol; DBPC; 2,6-Bis(1,1-dimethylethyl)-4-methylphenol

Version: V2.0.0.1

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Creation Date: 2022/03/21

Revision Date: 2022/03/21

*Prepared according to UN GHS (the 9th revised edition)

1 Identification

Product identifier

Product Name	BHT; BHT FOOD ADDITIVE; 2,6-Di-tert-4-Methylphenol; Butylated hydroxytoluene; 2,6-Di-tert-butyl-p-cresol; DBPC; 2,6-Bis(1,1-dimethylethyl)-4-methylphenol
CAS No.	128-37-0
EC No.	204-881-4
Molecular Formula	C ₁₅ H ₂₄ O

Recommended use of the product and restrictions on use

Relevant identified uses	Used as antioxidant, stabilizer and antioxidant.
Uses advised against	No special instructions.

Details of the supplier

Applicant Name	NANJING DATANG CHEMICALCO. LTD.
Applicant Address	ROOM 508, 5TH FLOOR, EAST TOWER, BUILDING 2, XINGHE WORLD INDUSTRIAL PARK, 56 LINGZHI ROAD, HONGSHAN STREET, XUANWU DISTRICT, NANJING, JIANGSU, CHINA
Applicant Post Code	210018
Applicant Telephone	86-25-85287198
Applicant Fax	86-25-85287178
Applicant E-mail	—
Supplier Name	JUYE BAILIN CHEMICAL CO., LTD.
Supplier Address	Dongguantun Coal Chemical Industry Park, Juye County, Heze, Shandong Province
Supplier Post Code	—
Supplier Telephone	—
Supplier Fax	—
Supplier E-mail	—

Emergency phone number

Emergency phone number	86-25-85287198
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2 Hazard(s) identification

Hazard classification according to GHS

Acute Toxicity – Oral	Category 4
Hazardous To The Aquatic Environment – Short-Term	Category 1

(Acute) Hazard	
Hazardous To The Aquatic Environment – Long-Term (Chronic) Hazard	Category 1

GHS Label elements

Hazard pictograms	
Signal word	Warning

Hazard statements

H302	Harmful if swallowed
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Precautionary statements

Prevention

P264	Wash hands and other parts of the body (if related) thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.

Response

P330	Rinse mouth.
P391	Collect spillage.
P301+P317	IF SWALLOWED: Get medical help.

Storage

Storage	Not applicable
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Disposal

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

Physical and chemical hazards

	No information available
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Health hazards

Inhaled	Cough. Sore throat.
Ingestion	Abdominal pain. Confusion. Dizziness. Nausea. Vomiting.
Skin Contact	Redness.
Eye	Redness. Pain.

Environmental hazards

	This product is very toxic to aquatic life with long lasting effects. Please refer to 12th chapter of SDS.
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3 Composition/information on ingredients

Substance/mixture

Substance			
Component	CAS No.	EC No.	Concentration (wt, %)
2,6-Di-tert-4-Methylphenol	128-37-0	204-881-4	99
Water	7732-18-5	231-791-2	1

4 First-aid measures

Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Skin contact	Remove contaminated clothes. Rinse and then wash skin with water and soap.
Ingestion	Rinse mouth. Rest. Refer for medical attention.
Inhalation	Fresh air, rest. Refer for medical attention.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

Most important symptoms/effects, acute and delayed

1	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.
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Indication of any immediate medical attention and special treatment needed

1	Treat symptomatically.
2	Symptoms may be delayed.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Use extinguishing media suitable for surrounding area.
Unsuitable extinguishing media	There is no restriction on the type of extinguisher which may be used.

Specific hazards arising from the substance or mixture

1	Development of hazardous combustion gases or vapor possible in the event of fire.
2	Combustible solid which burns but propagates flame with difficulty.

Special protective equipment and precautions for fire-fighters

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.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

1	Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static
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	discharges.
2	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
3	Use personal protective equipment, do not breathe dust/fume.

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	Cut off the source of the leak as much as possible.
2	Keep leaks in a ventilated place.
3	Isolation of contaminated areas and restrictions on access.
4	It is recommended that emergency personnel wear dust masks.
5	Collect the spill with a clean shovel and place it in a clean, dry, loosely closed container and move the container away from the leak.
6	Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

7 Handling and storage

Precautions for safe 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.

Conditions for safe storage, including any incompatibilities

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.

8 Exposure controls/personal protection

Control parameters

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m ³	ppm	mg/m ³
2,6-Di-tert-4-Methylphenol	USA - NIOSH	-	10	-	-
	South Korea	-	2	-	-
	Ireland	-	10	-	-
	Germany (AGS)	-	10	-	40
	Denmark	-	10	-	20
	Australia	-	10	-	-

◆ Biological limit values

Biological limit values	No relevant regulations
♦ 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 300 series standard Determination of toxic substances in workplace air.

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	Set up emergency exit and necessary risk-elimination area.
4	Handle in accordance with good industrial hygiene and safety practice.

Personal protection equipment

General requirement	    
Eye protection	Must wear appropriate safety goggles.
Hand protection	Must wear appropriate chemical protective gloves.
Respiratory protection	Must wear appropriate personal respiratory protective equipment.
Skin and body protection	Must wear appropriate chemical protective clothing and chemical resistant shoes.

9 Physical and chemical properties and safety characteristics

Physical and chemical properties

Physical state	Solid (particles)
Colour	White transparent
Odor	Slight odor
Odor threshold	No information available
pH	No information available
Melting point/freezing point(°C)	70
Initial boiling point and boiling range(°C)	265
Flash point(Closed cup, °C)	127
Evaporation rate	Not applicable
Flammability	Combustible
Upper/lower explosive limits[% (v/v)]	Upper limit: No information available; Lower limit: No information available
Vapor pressure	1.3Pa
Relative vapour density(Air = 1)	7.6
Relative density(Water=1)	1.05
Solubility	Insoluble in water (Methanol: 0.1 g/ml, clear, colorless)
n-octanol/water partition coefficient	5.1
Auto-ignition temperature(°C)	470 (Dust)

Decomposition temperature(°C)	No information available
Kinematic viscosity	Not applicable
Particle characteristics	No information available

10 Stability and reactivity

| Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous reactions	In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxicological information

| Acute toxicity

Component	LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)
2,6-Di-tert-4-Methylphenol	890mg/kg(Rat)	No information available	No information available

| Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP
2,6-Di-tert-4-Methylphenol	Category 3	Not Listed
Water	Not Listed	Not Listed

| Others

Water(Component)	
Skin corrosion/irritation	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Based on available data, the classification criteria are not met
Skin sensitization	Based on available data, the classification criteria are not met
Respiratory sensitization	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	Based on available data, the classification criteria are not met
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
Germ cell mutagenicity	Based on available data, the classification criteria are not met
Reproductive toxicity(additional)	Based on available data, the classification criteria are not met
2,6-Di-tert-4-Methylphenol(Component)	
Skin corrosion/irritation	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Based on available data, the classification criteria are not met

Skin sensitization	Based on available data, the classification criteria are not met
Respiratory sensitization	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	Based on available data, the classification criteria are not met
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
Germ cell mutagenicity	Based on available data, the classification criteria are not met
Reproductive toxicity(additional)	Based on available data, the classification criteria are not met

12 Ecological information

| Acute aquatic toxicity

Component	Fish	Crustaceans	Algae
2,6-Di-tert-4-Methylphenol	LC ₅₀ : 1.1mg/L (96h)(Fish)	EC ₅₀ : 0.84mg/L (48h)(Crustaceans)	ErC ₅₀ : >0.24mg/L (72h)(Algae)

| Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae
2,6-Di-tert-4-Methylphenol	No information available	NOEC: 0.069mg/L(Crustaceans)	NOEC: 0.24mg/L(Algae)

| Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
2,6-Di-tert-4-Methylphenol	High	High
Water	Low	Low

| Bioaccumulative potential

Component	Bioaccumulative potential	Comments
2,6-Di-tert-4-Methylphenol	High	BCF=2500
Water	Low	Log Kow=-1.38

| Mobility in soil

Component	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
2,6-Di-tert-4-Methylphenol	Low	23030
Water	Low	14.3

| Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	Insufficient information, temporarily unable to evaluate
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13 Disposal considerations

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	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.

14 Transport information

Label and Mark

Transporting Label	
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IMDG-CODE

UN number	3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Transport hazard class	9
Transport subsidiary hazard class	None
Packing group	III
Marine pollutant (Yes or no)	Yes

IATA-DGR

UN number	3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Transport hazard class	9
Transport subsidiary hazard class	None
Packing group	III

UN-ADR

UN number	3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Transport hazard class	9
Transport subsidiary hazard class	None
Packing group	III

15 Regulatory information

International chemical inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AIIC	ENCS
2,6-Di-tert-4-Methylphenol	✓	✓	✓	✓	✓	✓	✓	✓	✓
Water	✓	✓	✓	✓	✓	✓	✓	✓	✓

[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]	Korea Existing Chemicals Inventory
[AIIC]	Australia. Inventory of Industrial Chemicals (AIIC)
[ENCS]	Japan Inventory of Existing & New Chemical Substances

Note:

- “√” Indicates that the substance included in the regulations.
“x” No data or not included in the regulations.

16 Other information

Information on revision

Creation Date	2022/03/21
Revision Date	2022/03/21
Reason for revision	-

Reference

- [1] IPCS: The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>.
- [2] IARC, website: <http://www.iarc.fr/>.
- [3] OECD: The Global Portal to Information on Chemical Substances, website: <https://www.echemportal.org/echemportal/substancesearch/index.action>.
- [4] CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>.
- [5] NLM: ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>.
- [6] EPA: Integrated Risk Information System, website: <http://cfpub.epa.gov/iris/>.
- [7] U.S. Department of Transportation: ERG, website: <http://www.phmsa.dot.gov/hazmat/library/erg>.
- [8] Germany GESTIS-database on hazard substance, website: <http://gestis-en.itrust.de/>.

Abbreviations and acronyms

CAS	Chemical Abstracts Service	UN	The United Nations
PC-STEL	Short term exposure limit	OECD	Organization for Economic Co-operation and Development
PC-TWA	Time Weighted Average	IMDG	International Maritime Dangerous Goods
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
DNEL	Derived No Effect Level	ICAO	International Civil Aviation Organization
PNEC	Predicted No Effect Concentration	IATA	International Air Transportation Association
NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
LC ₅₀	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD ₅₀	Lethal Dose 50%	NTP	National Toxicology Program
EC ₅₀	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
EC _x	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
P _{OW}	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	Respiratory Protective Equipment
ED	Endocrine disruptor		

Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 9th 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,

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