

常州非凡医药科技有限公司

No4 HouYang chemical industrial park.Changzhou P.R.China Tel/Fax:86-519-82111935/86-519-82611250 www.feifanchem.com

MATERIAL SAFETY DATA SHEET

1.Product and company identification

1.1 Product identifiers

Product name: 2,6-di-tert-butyl-4-methylphenol

CAS-No.: 128-37-0

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Laboratory chemicals, Synthesis and Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company: Changzhou Extraordinary Pharmatech co.,LTD

Add:No4 HouYang chemical industrial park. Changzhou Jiangsu province P.R. China

Email: info@feifanchem.com Telephone: +86 519 82111935

Fax: +86 519 82611250

2.Hazard identification

2.1Classification of the substance or mixture

Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic 1

2.2GHS label elements, including precautionary statements

Pictogram(s)

Signal word Warning

Hazard statement(s) H410 Very toxic to aquatic life with long lasting effects

Precautionary statement(s)

Prevention P273 Avoid release to the environment.

Response P391 Collect spillage.

Storage none

Disposal P501 Dispose of contents/container to ...

2.30ther hazards which do not result in classification

None

3. Composition/information on ingredients

3.1Substances

Chemical name	Common names and synonyms	CAS number	EC number	Concentratio
2,6-di-tert-butyl-4-methylphenol	2,6-di-tert-butyl-4-methylphenol	128-37-0	none	100%



常州非凡医药科技有限公司

No4 HouYang chemical industrial park.Changzhou P.R.China Tel/Fax:86-519-82111935/86-519-82611250 www.feifanchem.com

4.First-aid measures

4.1Description of necessary first-aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

Fresh air, rest. Refer for medical attention.

In case of skin contact

Remove contaminated clothes. Rinse and then wash skin with water and soap.

In case of eye contact

First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then refer for medical attention.

If swallowed

Rinse mouth. Rest. Refer for medical attention.

4.2Most important symptoms/effects, acute and delayed

Exposure Routes: inhalation, ingestion, skin and/or eye contact Symptoms: Irritation eyes, skin Target Organs: Eyes, skin (NIOSH, 2016)

4.3Indication of immediate medical attention and special treatment needed, if necessary

If this chemical gets into the eyes, remove any contact lenses at once and irrigate immediately for at least 15 min, occasionally lifting upper and lower lids. Seek medical attention immediately. If this chemical contacts the skin, remove contaminated clothing and wash immediately with soap and water. Seek medical attention immediately. If this chemical has been inhaled, remove from exposure, begin rescue breathing (using universal precautions, including resuscitation mask) if breathing has stopped and CPR if heart action has stopped. Transfer promptly to a medical facility. When this chemical has been swallowed, get medical attention.

5.Fire-fighting measures

5.1Extinguishing media

Suitable extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2Specific hazards arising from the chemical

This chemical is combustible.

5.3Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

6.Accidental release measures

6.1Personal precautions, protective equipment and emergency procedures



常州非凡医药科技有限公司

No4 HouYang chemical industrial park.Changzhou P.R.China Tel/Fax:86-519-82111935/86-519-82611250 www.feifanchem.com

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2Environmental precautions

Sweep spilled substance into covered containers. Carefully collect remainder. Then store and dispose of according to local regulations. Do NOT let this chemical enter the environment. Personal protection: P2 filter respirator for harmful particles.

6.3Methods and materials for containment and cleaning up

ACCIDENTAL RELEASE MEASURES: Personal precautions, protective equipment and emergency procedures: Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. Methods and materials for containment and cleaning up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. Handling and storage

7.1Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2Conditions for safe storage, including any incompatibilities

Separated from strong oxidants and strong bases. Well closed. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Non Combustible Solids.

8.Exposure controls/personal protection

8.1Control parameters

Occupational Exposure limit values

Recommended Exposure Limit: 10 Hour Time-Weighted Average: 10 mg/cu m.

Biological limit values

no data available

8.2Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.3Individual protection measures, such as personal protective equipment (PPE) Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection



常州非凡医药科技有限公司

No4 HouYang chemical industrial park. Changzhou P.R. China Tel/Fax:86-519-82111935/86-519-82611250 www.feifanchem.com

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection

Wear dust mask when handling large quantities.

Thermal hazards

no data available

9. Physical and chemical properties

Physical state White crystals or crystalline powder

Colour White, crystalline solid

Odour Very faint, musty, occasional cresylic-type odor

Melting point/ freezing point 248°C(lit.)

Boiling point or initial boiling point 265°C(lit.)

and boiling range

Flammability Class IIIB Combustible Liquid: Fl.P. at or above 93.33°C.Combustible.

Lower and upper explosion limit / no data available

flammability limit

Flash point 127°C Auto-ignition temperature 470°C

Decomposition temperature no data available pH no data available

Kinematic viscosity 3.47 centistokes at 0°C; 1.54 centistokes at 120°C

Solubility In water:insoluble
Partition coefficient log Kow = 5.10

n-octanol/water (log value)

Vapour pressure <0.01 mm Hg (20 °C)

Density and/or relative density 1.048
Relative vapour density 7.6 (vs air)

Particle characteristics no data available

10.Stability and reactivity

10.1Reactivity no data available

10.2Chemical stability



常州非凡医药科技有限公司

No4 HouYang chemical industrial park. Changzhou P.R. China Tel/Fax:86-519-82111935/86-519-82611250 www.feifanchem.com

Stable under recommended storage conditions.

10.3Possibility of hazardous reactions

Combustible when exposed to heat or flame.Phenols, such as BUTYLATED HYDROXYTOLUENE, do not behave as organic alcohols, as one might guess from the presence of a hydroxyl (-OH) group in their structure. Instead, they react as weak organic acids. Phenols and cresols are much weaker as acids than common carboxylic acids (phenol has pKa = 9.88). These materials are incompatible with strong reducing substances such as hydrides, nitrides, alkali metals, and sulfides. Flammable gas (H2) is often generated, and the heat of the reaction may ignite the gas. Heat is also generated by the acid-base reaction between phenols and bases. Such heating may initiate polymerization of the organic compound. Phenols are sulfonated very readily (for example, by concentrated sulfuric acid at room temperature). The reactions generate heat. Phenols are also nitrated very rapidly, even by dilute nitric acid. Nitrated phenols often explode when heated. Many of them form metal salts that tend toward detonation by rather mild shock. May react with oxidizing materials.

10.4Conditions to avoid

no data available

10.5Incompatible materials

Incompatible materials: Acid chlorides, acid anhydrides, oxidizing agents, bases, brass, copper

10.6Hazardous decomposition products

Hazardous decomposition products formed under fire conditions - Carbon oxides.

11.Toxicological information Acute toxicity

Oral: LD50 Rat oral 890 mg/kg

Inhalation: no data available

Dermal: no data available

Skin corrosion/irritation

no data available

Serious eye damage/irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

No data are available in humans. Limited evidence of carcinogenicity in animals. OVERALL EVALUATION: Group 3: The agent is not classifiable as to its carcinogenicity to humans.



常州非凡医药科技有限公司

No4 HouYang chemical industrial park.Changzhou P.R.China Tel/Fax:86-519-82111935/86-519-82611250 www.feifanchem.com

Reproductive toxicity

no data available

STOT-single exposure

no data available

STOT-repeated exposure

no data available

Aspiration hazard

no data available

12. Ecological information

12.1Toxicity

Toxicity to fish: no data available

Toxicity to daphnia and other aquatic invertebrates: no data available

Toxicity to algae: no data available

Toxicity to microorganisms: no data available

12.2Persistence and degradability

AEROBIC: 2,6-Di-t-butyl-p-cresol, present at 50 mg/L, reached 4.5% of its theoretical BOD in 4 weeks using a sludge inocula at 50 ppm(1). Using a Kodaira (sandy clay loam; pH 5.5, 31% sand, 40% silt, 29% clay; 15.3% organic matter; Tokoyo), Azuchi (light clay; pH 6.3, 65% sand, 18% silt, 17% clay; 2.5% organic matter; Shiga Pref) and Takarazuka (sandy loam; pH 7.0, 95% sand, 3% silt, 2% clay; 2.7% organic matter; Hyogo Pref) soils in Japan, 14C-labeled 2,6-di-t-butyl-p-cresol was degraded 57.3, 55.8 and 48.4% degraded, respectively, after 24 days(2).

12.3Bioaccumulative potential

BCF values 330-1800, 230-2500 and 220-2800 were measured for 2,6-di-t-butyl-p-cresol present at 5, 50 and 500 ppb, respectively, using rice fish (Cyprinus carpio) which were exposed over a 6 to 8-week period(1). According to a classification scheme(2), these BCF values suggest that bioconcentration in aquatic organisms is high to very high(SRC), provided the compound is not metabolized by the organism(SRC).

12.4Mobility in soil

Using a structure estimation method based on molecular connectivity indices(1), the Koc of 2,6-di-t-butyl-p-cresol can be estimated to be 1.5X10+4(SRC). According to a classification scheme(2), this estimated Koc value suggests that 2,6-di-t-butyl-p-cresol is expected to be immobile in soil.

12.50ther adverse effects

no data available

13.Disposal considerations



常州非凡医药科技有限公司

No4 HouYang chemical industrial park.Changzhou P.R.China Tel/Fax:86-519-82111935/86-519-82611250 www.feifanchem.com

13.1Disposal methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

14.Transport information

14.1UN Number

ADR/RID: UN3077 IMDG: UN3077 IATA: UN3077

14.2UN Proper Shipping Name

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

14.3Transport hazard class(es)

ADR/RID: 9 IMDG: 9 IATA: 9

14.4Packing group, if applicable

ADR/RID: III IMDG: III IATA: III

14.5Environmental hazards

ADR/RID: yes IMDG: yes IATA: yes

14.6Special precautions for user

no data available

14.7Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

no data available

15.Regulatory information

15.1Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS number	EC number	
2,6-di-tert-butyl-4-methylphenol 2,6-di-tert-butyl-4-methylphenol		128-37-0	none	
European Inventory of Existing Commercial Chemical Substances (EINECS)				
EC Inventory				
United States Toxic Substances Control Act (TSCA) Inventory				
China Catalog of Hazardous chemicals 2015				
New Zealand Inventory of Chemicals (NZIoC)				
Philippines Inventory of Chemicals	and Chemical Substances (PICCS)		Listed.	



常州非凡医药科技有限公司

No4 HouYang chemical industrial park.Changzhou P.R.China Tel/Fax:86-519-82111935/86-519-82611250 www.feifanchem.com

Vietnam National Chemical Inventory	Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)	Listed.

16.Other information

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority.

The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Changzhou Extraordinary Pharmatech co., LTD not be held liable for any damage resulting from handling.