



## SPECIFICATION SHEET

1. PRODUCT NAME:	<b>Tertiary Butylhydroquinone FCC (TBHQ)</b>
2. APPEARANCE:	TBHQ is a white crystalline powder having a characteristic odour.
3. CHEMICAL NAME:	2-(1,1-Dimethylethyl)-1,4-benzenediol
4. MOLECULAR FORMULA:	C <sub>10</sub> H <sub>14</sub> O <sub>2</sub>
5. MOLECULAR WEIGHT:	166.22
6. IDENTIFICATION:	CAS Number 1948-33-0, E number: 319
7. FUNCTIONAL CLASS:	Antioxidant
8. ABBREVIATIONS:	FCC = Food Chemical Codex CFSL = Camlin Fine Sciences Ltd.

TESTS	SPECIFICATIONS	METHOD
9. IDENTIFICATION a) Description b) Solubility c) Melting Range	White to crystalline powder having a characteristic odour. Soluble in alcohol and practically insoluble in water. NLT 126.5°C	FCC FCC FCC
10. PURITY a) Assay (Titrimetric) *b) Tert-Butyl-p-Benzoquinone (IR) *c) 2,5-Di-tert-Butyl Hydroquinone (GC) *d) Hydroquinone content (GC) *e) Toluene (GC) *f) Lead content *g) Ultraviolet Absorbance (polynuclear hydrocarbon)	Minimum 99% of C <sub>10</sub> H <sub>14</sub> O <sub>2</sub> NMT 0.2% NMT 0.2% NMT 0.1% NMT 0.0025% NMT 2 mg/kg 280 – 289 nm – Net Abs Maximum 0.15 290 – 299 nm – Net Abs Maximum 0.12 300 – 359 nm – Net Abs Maximum 0.08 360 – 400 nm – Net Abs Maximum 0.02	FCC FCC FCC FCC FCC FCC FCC FCC

\*To be analysed randomly in between every 25<sup>th</sup> batch.

### 11. CONFORMITY:

- a) FCC, JECFA and EU: Tertiary Butylhydroquinone conforms with FCC, JECFA and EU specifications.
- b) Genetically Modified Organisms: Tertiary Butylhydroquinone is not produced from ingredients or processing aids derived by genetic modification. Tertiary Butylhydroquinone does not contain any genetically modified organisms.
- c) BSE/TSE: No animal derived ingredients whatsoever are used in the production of Tertiary Butylhydroquinone. Further there is no animal derived ingredient used in the facility where Tertiary Butylhydroquinone is produced.
- d) ISO CERTIFICATION: Tertiary Butylhydroquinone is ISO 9001:2008 and ISO 22000:2005 Certified.
- e) KOSHER: Tertiary Butylhydroquinone is Kosher & Pareve and can be used in Kosher food industry, pharmaceuticals & other Kosher products.
- f) HALAL: Tertiary Butylhydroquinone is Halal certified.

12. APPLICATIONS: Vegetable oils & fats, Fat spreads, Sauces, Cocoa & Chocolate products.

13. SHELF LIFE: 3 years from the date of manufacture, when properly stored in sealed original container in cool dry place.

14. STORAGE: Store in cool dry place away from moisture, oxidizing agents and alkaline atmosphere. Keep container closed when not in use.

15. PACKAGING: 25 kg packed in LDPE bag in fibre drums.

25 kg packed in LDPE bag inside multilayer paper bag.

16. LABELLING: The label includes product name, batch number, gross weight, net weight, manufacturer name, manufacturing date and expiration date.

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GC CHEMICALS, CORP. Telephone (914) 834-4151 Fax: (914) 834-3761  
1890 Palmer Avenue, Suite 403 B, Larchmont, NY 10538  
e-mail: [Info@gcchemicals.com](mailto:Info@gcchemicals.com)