| ISSUE NO. : 07 DATE : 01/02 REV. NO. : 00 DATE : 01 /02 | | DOC NO. : ASFC / 007 PAGE NO. 1 / 4 |
|--|---|---|
| 1. PRODUCT NAME | : Tert – Butyl Hydroquinone (TBHQ) | |
| 2. MANUFACTURER | : Camlin Fine Chemicals Limited Plot No.F11 & F12, WICEL, Opp.SEEPZ Main Gate, Central Road, Andheri (E), Mumbai – 400093. India | |
| 3. Description | : TBHQ is a white crystalline powder having a characteristic odour. It is soluble in alcohol and practically insoluble in water. | |
| 4. CHEMICAL NAME | : Tert – Butyl - Hydroquinone | |
| 5. MOLECULAR FORMULA | : C ₁₀ H ₁₄ O ₂ | |
| 6. MOLECULAR WEIGHT | : 166.22 | |
| 7. IDENTIFICATION | : CAS Number | 1948 – 33 – 0 |
| 8. ABBREVATIONS | : FCC = Food C | Chemical Codex |
| Camlin Fine Chemicals L Plot No F 11 & 12 WICEL | Fax: + | 1 - 22 - 40201000 91 - 22 - 28324404 |

E- mail: sales@camlinfinechem.com

Website: www.camlinfinechem.com

Opp. Seepz, Andheri (East)

Mumbai - 400 093, India

ISSUE NO. : 07 DATE : 01/02/2010 DOC NO. : ASFC / 007 REV. NO. : 00 DATE : 01 /02/2010

ANALYTICAL TESTING

| TESTS | SPECIFICATIONS | METHOD |
|---|--|--------|
| 8. IDENTIFICATION | | |
| | | |
| A) Description | White to crystalline powder | FCC |
| | having a characteristic odour | |
| B) Solubility | Soluble in alcohol and practically | FCC |
| | insoluble in water | |
| C) Melting Range | Between 126.5°C to 128.5°C | FCC |
| C) Menning Kange | Detween 120.3 C to 120.3 C | TCC |
| 9. PURITY | | |
| | | 500 |
| A) Assay (Titrimetric) | Min. 99% of C ₁₀ H ₁₄ O ₂ | FCC |
| B) Tert – Butyl – p – | Max. 0.2 % | FCC |
| Benzoquinone (IR) C) 2,5 – Di – tert – Butyl | Max. 0.2 % | FCC |
| Hydroquionone | | 100 |
| D) Hydroquinone | Max. 0.1 % | FCC |
| content (GC) | | |
| E) Toulene (GC) | Max. 0.0025 % | FCC |
| F) Heavy Metals | Max. 2 ppm | FCC |
| (as Pb) | | 500 |
| G) Ultraviolet | 280 – 289 nm – net abs Max. 0.15 | FCC |
| Absorbance | 290 – 299 nm – net abs Max. 0.12 | |
| (polynuclear | 300 – 359 nm – net abs Max. 0.08 | |
| hydrocarbon) | 360 – 400 nm – net abs Max. 0.02 | |

Camlin Fine Chemicals Ltd. Plot No F 11 & 12 WICEL Opp. Seepz, Andheri (East) Mumbai - 400 093, India

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PAGE NO. 2 / 4

ISSUE NO. : 07 DATE : 01/02/2010 DOC NO. : ASFC / 007 REV. NO. : 00 DATE : 01 /02/2010 PAGE NO. 3/4 10. CONFORMITY : A) FCC - Food Chemical Codex B) Genetically Modified Organisms - TBHQ is not produced from ingredients or processing aids derived by genetic modification. TBHQ does not contain any genetically modified organisms. C) BSE - No animal derived ingredient whatsoever are used in the production of TBHO. Further there is no animal derived ingredient used in the facility where TBHQ is produced. D) ISO CERTIFICATION - TBHQ is ISO 22000 : 2005 Certified. E) KOSHER – TBHQ is Kosher & Pareve and can be used in Kosher food industry, pharmaceuticals & other Kosher products. F) HALAL – TBHQ is Halal certified. 11. SHELF LIFE : 3 years from the date of manufacture, when properly stored in sealed original container. Camlin Fine Chemicals Ltd. Tel: +91 - 22 - 40201000 Plot No F 11 & 12 WICEL Fax: + 91 - 22 - 28324404 Opp. Seepz, Andheri (East) E- mail: sales@camlinfinechem.com Mumbai - 400 093, India Website: www.camlinfinechem.com

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ISSUE NO. : 07 DATE : 01/02/2010 DOC NO. : ASFC / 007 REV. NO. : 00 DATE : 01 /02/2010 PAGE NO. 4 / 4 12. PACKAGING : 25 kg fiber drums with double - liner polyethylene inner . bags The label includes product name, batch number, gross weight, net weight, manufacturing date and expiration date. 13. LOT CODING : ATB009G001 A = Plant Location (Tarapur) TB = Product Name (TBHQ) 0 = Mfg. stage09 = Year of manufacture G = Month of manufacture (July) 001 = Batch No. / Series No. 14. CERTIFICATION : ISO 22000 : 2005 KOSHER HALAL

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