

## SAFETY DATA SHEET

### Butylated Hydroxy Anisole (BHA)

#### SECTION 1: IDENTIFICATION

##### 1.1. Product Identifier

**Product Form:** Flakes  
**Product Name:** Butylated Hydroxy Anisole (BHA)  
**Synonyms:** Tert-butyl-4-methoxyphenol

##### 1.2. Intended Use of the Product

**End Product**  
**Use of the Substance/ Mixture:** Additive for industrial use, antioxidant for Food Industry, antioxidant FCC grade

##### 1.3. Name, Address and Telephone of the Responsible party

CAMLIN FINE SCIENCES LIMITED  
 Plot No. F/ 11 & F/12, WICEL, MIDC, Marol, Central Road,  
 Opp. SEEPZ Main Gate, Andheri (East), Mumbai – 400 093, INDIA  
 +91-22-6700 1000

##### 1.4. Emergency Telephone Number

**Emergency Number** Globally: Camlin Fine Sciences Ltd. +91-22-6700 1000  
 North America: Chemtrec 1-800-424-9300

#### SECTION 2: HAZARDS IDENTIFICATION

##### 2.1. Classification of the Substance or Mixture

**GHS-US Classification** Acute toxicity (oral), Category 4  
 Skin irritation, Category 2  
 Eye irritation, Category 2  
 Carcinogen, Category 2  
 Reproductive Toxicity, Category 2  
 Chronic aquatic hazard, Category 2

##### 2.2. Label Elements (GHS-US Labeling)

###### Hazard Pictograms (GHS-US)



###### Signal Word (GHS-US)

Warning

###### Hazard Statements (GHS-US)

H302: Harmful if swallowed  
 H315: Causes skin irritation  
 H319: Causes serious eye irritation  
 H351: Suspected of causing cancer if swallowed  
 H361: Suspected of damaging fertility or the unborn child

###### Precautionary Statements (GHS-US)

H411: Toxic to aquatic life with long lasting effects  
 P201: Obtain special instructions before use.  
 P202: Do not handle until all safety precautions have been read and understood.

P264: Wash hands thoroughly after handling.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313: IF exposed or concerned: Get medical advice/attention.  
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.  
P391: Collect spillage.  
P330: Rinse mouth  
P337+P313: If eye irritation persists: Get medical advice/attention.  
P362+P364: Take off contaminated clothing and wash it before reuse.  
P332+P313: If skin irritation occurs: Get medical advice/attention.  
P501: Dispose of contents/container in accordance with local/regional/national/ international regulations.  
No other hazards

### 2.3. Other Hazards

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substance

Identification of the substance

Trade name	BHA
EC name	Tert-butyl-4-methoxyphenol
Product use	End Product
CAS number	25013-16-5
(EINECS) number	246-563-8

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First-aid Measures

**First-aid Measures General:** Observe good industrial hygiene practices. If you feel unwell, seek medical advice.

**First-aid Measures After Inhalation:** Remove casualty to fresh air and keep warm and at rest.

**First-aid Measures After Skin Contact:** Immediately take off all contaminated clothing. Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. Wash thoroughly the body (shower or bath). Remove contaminated clothing immediately and dispose off safely.

<b>First-aid Measures After Eye Contact:</b>	After contact with skin, wash immediately with soap and plenty of water. After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Protect uninjured eye.
<b>First-aid Measures After Ingestion:</b>	Clean mouth with water and afterwards drink plenty of water.
<b>4.2. Most Important Symptoms and Effects Both Acute and Delayed</b>	None
<b>4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed</b>	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

## SECTION 5: FIRE-FIGHTING MEASURES

- 5.1. Extinguishing Media**  
**Suitable Extinguishing Media:** Suitable extinguishing media: Water spray, carbon dioxide or Dry chemical fire extinguisher  
Extinguishing media which must not be used for safety reasons: None in particular.
- 5.2. Special Hazards Arising from the Substance or Mixture**  
Do not inhale explosion and combustion gases.
- 5.3. Advice for Firefighters**  
Avoid inhaling the fumes.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Move undamaged containers from immediate hazard area if it can be done safely.  
Wear helmet with visor, antfire paint jacket and trousers. Use self-containing breathing apparatus to protect the respiratory system.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1. Personal Precautions, Protective Equipment and Emergency Procedures**  
**General Measures:** Wear personal protection equipment.  
Remove all sources of ignition.  
Remove persons to safety.  
See protective measures under point 7 and 8.
- 6.2. Environmental Precautions**  
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.  
Retain contaminated washing water and dispose it.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Suitable material for taking up: absorbing material, organic, sand  
Wash with plenty of water.
- 6.3. Methods and Materials for Containment and Cleaning UP**  
Wash with plenty of water.
- 6.4. Reference to Other Sections**  
See also section 8 and 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Provide a good general ventilation.

Place in a cool, dry place. There are no restrictions on storage or common storage with other dangerous goods for fire risk of materials and packaging.

Keep away from food, drink and feed.

Incompatible materials:

None in particular. See, too, paragraph 10.

Instructions as regards storage premises:

Adequately ventilated premises and complete of eyewash fountain and emergency shower. Dispose on suitable floors and provided of spillage basins.

None in particular.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

### 7.3. Specific End Use (s)

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

No occupational exposure limit available

DNEL Exposure Limit Values tert-butyl-4-methoxyphenol - CAS: 25013-16-5

Notes: Overall ass factor =30 (NOAEC)

Notes: Overall ass factor =37.5 (NOAEC)

Notes: Overall ass factor =50 (NOAEL)

Notes: Overall ass factor =300 (NOAEL)

Notes: Overall ass factor =30 (NOAEC)

PNEC Exposure Limit Values N.A.

### 8.2. Exposure Controls

Eye protection:

Eye glasses with side protection.

Protection for skin:

Disposable suit.

Protection for hands:

Protective gloves made of nitrile or butyl rubber or PVC. Average protection. Typical breakthrough times > 60'. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Observe data on water resistance and penetration of the supplier. Consider also the risk of cuts, abrasion, and the contact time. Thickness recommended guideline for uses 0.39 mm Medium duty.

Respiratory protection:

Filtering Half-face mask (DIN EN 149) for dusts (P3). // Filtering half masks (EN 405) for vapors / dusts (FFA2P3). (UNI EN 405))..

Thermal Hazards: None

Environmental exposure controls:

Adopt the extraction of vapors from the workplace. Appropriate engineering controls:

None

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

<b>Appearance and Color</b>	White to yellow waxy solid
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	Not available
<b>pH</b>	1.28
<b>Melting point/Freezing point</b>	51°C
<b>Initial boiling point and boiling range</b>	264°C
<b>Flash point (Closed Cup)</b>	130°C
<b>Evaporation rate</b>	Not available
<b>Solid/gas flammability</b>	Not available
<b>Upper/Lower flammability of explosive limits</b>	Not available
<b>Vapor Pressure</b>	Not available
<b>Vapor Density</b>	Not available
<b>Relative Density</b>	0.66 g/cm <sup>3</sup>
<b>Solubility in water</b>	610 mg/l at 29°C
<b>Solubility in oil</b>	Not available
<b>Partition coefficient (noctanol/water)</b>	3.5 at 25°C (log POW)
<b>Auto-ignition temperature</b>	Not available
<b>Decomposition temperature</b>	Not available
<b>Viscosity</b>	Not available

## SECTION 10: STABILITY AND REACTIVITY

<b>10.1. Reactivity:</b>	Stable under normal conditions.
<b>10.2. Chemical Stability:</b>	Stable under normal conditions.
<b>10.3. Possibility of Hazardous Reactions:</b>	It may generate flammable gases on contact with elementary metals (alkalis and alkaline earth), nitrides and powerful reducing agents. It may catch fire on contact with oxidizing mineral acids.
<b>10.4. Conditions to avoid</b>	Stable under normal conditions.
<b>10.5. Incompatible Materials:</b>	Oxidizing products and concentrated alkalis.
<b>10.6. Hazardous Decomposition Products:</b>	None.

## SECTION 11: TOXICOLOGICAL INFORMATION

<b>11.1. Information on Toxicological Effects</b>	Toxicological information of the substance:
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Test: LD50 - Route: Oral - Species: Rat 2000 mg/kg;  
Mouse 1100 mg/kg; Rabbit 2100 mg/kg  
Test: LD50 - Route: Dermal - Species: Rabbit 2000  
mg/kg

## SECTION 12: ECOLOGICAL INFORMATION

- 12.1. Toxicity** Adopt good working practices, so that the product is not released into the environment.  
tert-butyl-4-methoxyphenol - CAS: 25013-16-5  
a) Aquatic acute toxicity:  
Endpoint: EC50 - Species: Algae = 7 mg/l - Duration h: 72 - Notes: Chlorella vulgaris  
Endpoint: LC50 - Species: Fish = 4.8 mg/l - Duration h: 96 - Notes: bluegill sunfish
- 12.2. Persistence and Degradability** None  
tert-butyl-4-methoxyphenol - CAS: 25013-16-5  
Biodegradability: Non-readily biodegradable - Test: N.A. - Duration: N.A. - %: N.A. - Notes: % Biodegradability water
- 12.3. Bioaccumulative Potential** Not available
- 12.4. Mobility in Soil** Not available
- 12.5. Other Adverse Effects** None  
Results of PBT and vPvB assessment vPvB Substances: None - PBT Substances: None

## SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1. Waste Treatment Methods** Recover, if possible. Send to authorized disposal plants or for incineration under controlled conditions.  
In so doing, comply with the local and national regulations currently in force.

## SECTION 14: TRANSPORT INFORMATION

- 14.1. UN number**
- DOT** 3077  
**IATA** 3077  
**IMDG** 3077
- 14.2. UN Proper Shipping Name**
- DOT** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(tert-butyl-4-methoxyphenol (BHA))  
**IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(tert-butyl-4-methoxyphenol (BHA))  
**IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(tert-butyl-4-methoxyphenol (BHA))
- 14.3. Transport Hazard Class(es)**
- DOT** 9

	<b>IATA</b>	9, 6.1
	<b>IMDG</b>	9
<b>14.4. Packing Group</b>	<b>DOT</b>	III
	<b>IATA</b>	III
	<b>IMDG</b>	III
<b>14.5. Environmental Hazards</b>	<b>DOT</b>	Environmental Pollutant
	<b>IMDG</b>	Marine Pollutant
<b>14.6. Special Precautions for user</b>	<b>IATA</b>	ERG: 9L
	<b>IMDG</b>	EmS: F-A , S-F

## SECTION 15: REGULATORY INFORMATION

### 15.1. US Federal Regulations OSHA

This product is known to be a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## SECTION 16: OTHER INFORMATION

<b>Hazard Class and Category</b>	<b>Description hazard</b>
Acute Tox. 4	Acute toxicity (oral), Category 4
Skin Irrit. 2	Skin irritation, Category 2
Eye Irrit. 2	Eye irritation, Category 2
Repr. 2	Reproductive toxicity, Category 2
Chronic Aquatic 2	Chronic aquatic hazard, Category 2
Carc. 2	Carcinogen, Category 2

The information contained herein is based on our state of knowledge at the above specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.