

# BHA Optimox



## Product Data Sheet – APF PDS BHA – March 2021



**BHA** is an antioxidant which consist in a mixture of 2 isomers; 2-tert-butyl-4-hydroxyanisole and 3-tert-butyl-4-hydroxyanisole.

Our unique process using MEHQ as starting material does not involve any toluene and therefore guarantee the highest standard of food & feed safety.

Solvay is positioned as an ingredient supplier and is integrated in raw materials producing its own MEHQ from its own HQ; this provides a unique guarantee of supply position.

### Identification:

|                    |  |
|--------------------|--|
| N° CAS:            | 25013-16-5                                     |
| SYNONYM:           | Butylated Hydroxyanisole                       |
| EMPIRICAL FORMULA: | C <sub>11</sub> H <sub>16</sub> O <sub>2</sub> |
| MOLECULAR WEIGHT:  | MW = 180.25 g/mol                              |

### Process safety:

**BHA Optimox** is produced with a water based process **without any toluene**.

### Specifications:

| CHARACTERISTICS                     | LIMITS                          | METHODS     |
|-------------------------------------|---------------------------------|-------------|
| Appearance                          | White to slightly yellow flakes | Visual      |
| Solubility                          | Soluble in Ethanol              | Visual      |
| Melting point                       | 48 – 63 °C                      | Capillary   |
| Assay % w/w                         | ≥ 98.5 %                        | GC          |
| 3-tert-butyl-4-hydroxyanisole % w/w | ≥ 95 %                          | GC          |
| Phenolic impurities % w/w           | < 0.5 %                         | GC          |
| Sulphated ash %                     | < 0.05 %                        | Calcination |
| Arsenic                             | ≤ 2 ppm                         | ICP         |
| Lead                                | ≤ 2 ppm                         | ICP         |
| Mercury                             | ≤ 0.1 ppm                       | ICP         |
| Cadmium                             | ≤ 2 ppm                         | ICP         |
| Fluor                               | ≤ 150 ppm                       | ICP         |
| UV absorbance at 290 nm             | 190 – 210                       | Absorbance  |
| UV absorbance at 228 nm             | 326 - 345                       |             |
| Aspect (*)                          | Waxy solid                      | Guaranteed  |
| Odor (*)                            | characteristic                  | Guaranteed  |

The analytical methods used are described in current quality control standards. Some of these analyses can be performed on a statistical frequency.

(\*) These characteristics are guaranteed. However they are not reported on the Certificates of Analysis.

# BHA Optimox



## Applications:

Antioxidant in Food and Feed.

## Transport:

Regulated. For more details, please consult our Safety Data Sheet.

## Shelf Life and storage conditions:

The product is guaranteed **18 months** from its manufacturing date. Keep inner bag and drum tightly closed in a clean ventilated warehouse at ambient temperature. Protect from light, moisture and toxic substances. Do not use in alkali conditions. For more details, please consult our Safety Data Sheet.

## Packaging:

20 KG cardboard box (2x10 KG) with inner liner (PE/Alu/PE) on pallets 1140 x 1140 mm (4 levels & 6 boxes per level - 480 KG )

## Physico-chemical properties:

|                                     |                |
|-------------------------------------|----------------|
| Boiling point .....                 | 268°C          |
| Flash point .....                   | 142.1°C        |
| Solubility                          |                |
| In Water .....                      | insoluble      |
| In Alcohol / Propylene glycol ..... | freely soluble |

## Regulatory Compliance:

**EU:** BHA (E320) is authorized as antioxidant functional Group (technological additive category) in feed according to EU Regulation No 2020/1399, for all animal species except cats and in all feedingstuffs. Maximum content in complete feedingstuffs is 150 mg/kg alone, or together with BHT (E321) up to 150 mg of the mixture/kg, for all animal species other than cats.

**BHA (E320)** is authorized as antioxidant in food according to Regulation (EC) No 1333/2008. Maximum content in complete foodstuff ranges from 25 to 400 mg/kg depending on food categories (Please refer to Regulation (EC) No 1333/2008 for details). Maximum content in food additive preparations "emulsifiers containing fatty acids" and maximum content in flavourings are also defined (Please refer to Regulation (EC) No 1333/2008 for details).

**BHA Optimox** complies with the purity criteria and specifications of Regulation (EU) No 231/2012, FCC and JECFA monographs.

**US:** BHA is authorized under 21 CFR 172.110 for use as an antioxidant when used at the limits specified and labeled in accordance with 172.110. Compliant with FDA 21CFR Part 110.

FEMA GRAS number 2183

### China:

BHA is authorized under GB2760-2014 for use as an antioxidant when used at the limits specified in different food categories. CNS number is 04.001.

BHA is compliant with China Food Additive Standard GB 1886.12-2015.

**Other countries:** Local food and/or feed regulations should always be consulted concerning the status of this product, as legislation regarding its use may vary from **country to country**.

**GMO status:** BHA Optimox does not contain any GMO or any material derived from genetically modified origin, and is not manufactured from GMO.

**BSE/TSE:** BHA Optimox is free from any BSE/TSE contamination.

**Allergens:** Please refer to the separate allergen lists according to Regulation (EC) No 1169/2011 and to the US Food Allergen Labeling and Consumer Protection Act (FALCPA) of 2004.

**Regulatory inventories:** BHA is registered in the following inventories: TSCA (USA), AICS (Australia), DSL (Canada), IECSC (China), EINECS (Europe), ENCS (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan). BHA has been REACH registered. The registration number is: 01-2119935245-39-0001

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