



Revision date: 01.04.2013  
Supersedes all previous editions.

## MATERIAL SAFETY DATA SHEET

### Mixed Butylated Phenol (Antioxidant)

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#### Section 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION :

**Chemical Name :** Mixed Butylated Phenol (Antioxidant )

**Company Identification :**

**Ratnagiri Chemicals Pvt. Ltd.**

Head Office: 611/612 Raheja Arcade, Sector 11,  
CBD Belapur, Navi Mumbai – 400614.  
Maharashtra, INDIA  
Tel Nos +91-22-2757 0191  
+91-22-2757 0236  
Fax Nos +91-22-2757 0060  
Factory: C-39, MIDC Lote-Parshuram Indl Area  
Lote - 415722  
Maharashtra, INDIA  
Tel Nos +91-2356-272650  
Fax Nos +91-2256-272117

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#### Section 2 – Composition, Information on ingredients :

**Product Description :-**

Mixed Butylated Phenol

**Hazardous Ingredient(s) CAS No. EC No. :-**

2,6-di-tert-butyl phenol, 128-39-2, 204-884-0, ; R51/53 75% Min

2-tertiary-butyl phenol 88-18-8, 201-807-2 C;  
Xn;R21/22; R51/53

2,4-di-tert-butylphenol 96-76-4, 202-532-0 Xn;R22 Xi;R36/38  
R43 N; R50/53

Max  
Phenol 108-95-2, 203-623-7 T; Rr24/25 C;R34

2,4,6-tri-tert-butylphenol 732-26-3, 211-989-5 Xi; R36/37/38  
N; R51/53

} 25%



### **Section 3. HAZARD IDENTIFICATION:**

Irritating to eyes and skin.

Not classified as flammable but will burn . Toxic to aquatic, organisms , may cause long term adverse effect in the aquatic environment. Has the potential to bioaccumulate.

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### **Section 4. FIRST AID INFORMATION:**

**Eyes :** Immediately irrigate with eyewash solution or clean water. Holding the eyelids apart, for at least 15 minutes. Obtain medical attention immediately.

**Skin :** Remove contaminated clothing. After contact with skin , wash immediately with plenty of soap and water. If symptoms ( irritation or blistering ) occur obtain medical attention.

**Ingestion :** Provided the patient is conscious, wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Get medical aid. Do NOT induce vomiting.

**Inhalation :** Remove from exposure to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

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### **Section 5. FIRE FIGHTING MEASURES:**

#### **General Information :-**

During a fire, irritating and highly toxic and noxious gases generated.

#### **Extinguishing Media :-**

Use water spray, appropriate foam, dry powder or carbon dioxide to cool fire-exposed containers. DONOT Use a Water jet.

**Fire Fighting Protective Equipment :-** A self contained breathing apparatus and suitable protective clothing must be worn in fire condition.

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### **Section 6. ACCIDENTAL RELEASE MEASURES:**

#### **Spills / Leaks :-**

Adsorb spillages onto sand , earth or any suitable adsorbent material. Transfer to a lidded container for disposal. Do not empty into drains. Wash the spillage area clean. Any spillages or uncontrolled discharge to land or into watercourses must be IMMEDIATELY notified to the appropriate regular body.

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## **Section 7. HANDLING AND STORAGE:**

### **Handling :-**

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Do not eat drink or smoke. Keep container tightly closed. Avoid ingestion and inhalation.

### **Storage :-**

Store in a cool, well - ventilated area away from heat, oxidizers strong acids and bases. Keep containers properly sealed and in a bounded area when not in use. Store at ambient temperature. Store in mild or stainless steel. Avoid using PVC, natural and synthetic rubbers for storage or pipes etc.

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## **Section 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:**

### **Eyes :-**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

### **Skin :**

Wear appropriate protective gloves to prevent skin exposure.

### **Clothing :-**

Wear appropriate protective clothing to prevent skin exposure.

### **Occupational Exposure Limits LTEL 8 hr TWA STEL(15MIN) Notes Hazardous Ingredient(s) ppm mg/m<sup>3</sup> ppm mg/m<sup>3</sup> :-**

No occupational exposure limits assigned except for Phenol  
Phenol 20 mg/m<sup>3</sup> 39mg/m<sup>3</sup> SK

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## **Section 9. PHYSICAL AND CHEMICAL PROPERTIES:**

|  |   |                        |
|--|---|------------------------|
| <b>Appearance</b>                          | : | Liquid                 |
| <b>Color</b>                               | : | Colourless to yellow   |
| <b>Specific Gravity @ 20<sup>o</sup> C</b> | : | 0.94                   |
| <b>Boiling Point</b>                       | : | 224-264 <sup>o</sup> c |
| <b>Flash Point, Min</b>                    | : | 80 <sup>o</sup> c      |
| <b>Solubility (Water )</b>                 | : | practically insoluble  |

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### **Section 10. STABILITY:**

Avoid Heat flames and sparks.

#### **Incompatible materials :-**

Oxidising agents, strong acids and bases.

#### **Hazardous Decomposition Product (s) :-**

carbon monoxide, carbon dioxide phenolic derivatives

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### **Section 11. TOXICOLOGICAL INFORMATION:**

**Acute toxicity** : Oral, mouse : LD50=>2000 mg/kg ; Dermal, rabbit LD50=700 mg/kg

**Skin Contact** : Mildly irritating to skin. Not a sensitiser by Magnusson & Kilgman guinea-pig maximisation test.

**Eye Contact** : Moderately irritating to eyes.

**Inhalation** : High concentrations of vapour may be irritant to the respiratory tract.

**Ingestion** : Ingestion may cause irritation of the gastrointestinal tract.

**Chronic Toxicity** : Not considered to be mutagenic hazard. Not known to be associated with carcinogenic effects.

**Long Term Toxicity** : This product has not been evaluated in long term chronic exposure tests.

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### **Section 12. ECOLOGICAL INFORMATION:**

#### **Environmental Fate and Distribution :-**

High tonnage material used in wholly contained system. Solid with low volatility. The product is essentially insoluble in water and floats. The product has potential for bioaccumulation. The product has low mobility in soil. The product has low mobility in sediment.

#### **Persistence and Degradation :-**

May persist in sediments and soil.

#### **Ecotoxicity :-**

Toxic to fish. Acute fish toxicity=Toxic, 1<LC/EC/IC 50 <=10mg/l  
LC50/48h/daphnia=Toxic, 1/LC/EC/IC 50 <=10mg/l

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### **Section 13. DISPOSAL INFORMATION:**

Waste Disposal must be by an accredited contractor. Disposal should be in accordance with federal, state and local regulations. Incineration is an option. Nominally empty containers must be thoroughly decontaminated before being recycled.

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### **Section 14. TRANSPORTATION INFORMATION:**

**Shipping Name** : Environmentally hazardous substance, liquid, N.O.S (butylphenols, liquid)

**Identification NO.** : UN3082

**Packing group** : PGIII

**Hazardous class** : 9

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### **Section 15. REGULATORY INFORMATION:**

**EC Classification** : Xi irritant, N Dangerous for the Environment

**Hazards Symbols** : Xi, N

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### **Section 16. OTHER INFORMATION**

For additional information concerning this product, contact the following:

#### **PRODUCT EMERGENCIES**

**RATNAGIRI CHEMICALS PVT LTD**  
Head Office: 611/612 Raheja Arcade, Sector 11,  
CBD Belapur, Navi Mumbai – 400614.  
Maharashtra, INDIA  
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The data and recommendations presented in this data sheet concerning the use of our product and the materials contain there in are believed to be accurate and are based on information which is considered reliable as of the date hereof. However, the customer should determine the suitability of such material for his purpose before adopting them on a commercial scale. Since the use our products by others is beyond our control, no guarantee, express or implied, is made and no responsibility assumed for the use of this material or the results to be obtained there from. Information on this form is furnished for the purpose of compliance with Government Health and Safety Regulations and shall not be used for any other purposes. Moreover, the recommendations contained in this data sheet are not to be constructed as a license to operate under, or a recommendation to infringe, any existing patents, nor should they be confused with state, municipal or insurance requirements, or with national safety codes.

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