

MATERIAL SAFETY DATA SHEET

Microcrystalline Cellulose

1. Chemical Product & Supplier's Identification

- A. Product /Trade Name : BHA, Butylated hydroxyanisole
- B. CAS No. 25013-16-5
- C. Supplier's Name : Novus Impex, Lane 18/360/B , Satyagrah Chhavni, Opp. ISRO, Jodhpur Tekra, Satellite, Ahmedabad 380015
- D. Web site : www.novusimpex.com
- E. Email id: novusimpex99@gmail.com , info@novusimpex.com

2. Chemical Composition/Characterization & Description:

- A. Name: BHA
- B. CAS No. 25013-16-5
- C. Percent : 100%

3. Hazards Identification / Ingredients Information:,

Potential Health Effects

- I. Potential Acute Health Effects: Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation (lung irritant). Slightly hazardous in case of ingestion
- II. **Potential Chronic Health Effects:**
Slightly hazardous in case of skin contact (sensitizer).
CARCINOGENIC EFFECTS: Classified 2B (Possible for human.) by IARC. Classified 2 (Some evidence. Reasonably anticipated to be a human carcinogen) by NTP.
MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.
The substance may be toxic to blood, liver, upper respiratory tract, skin.
Repeated or prolonged exposure to the substance can produce target organs damage..

4 First Aid Measures:

- I. Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
- II. Skin Contact: In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

- III. Serious Skin Contact: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
- IV. Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- V. Serious Inhalation: Not available.
- VI. Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

5 Fire Fighting Measures:

- I. Flammability of the Product: May be combustible at high temperature.
- II. Auto-Ignition Temperature: Not available.
- III. Flash Points: CLOSED CUP: 156°C (312.8°F)..
- IV. Flammable Limits: Not available.
- V. Products of Combustion: These products are carbon oxides (CO, CO₂).
- VI. Fire Hazards in Presence of Various Substances: Slightly flammable to flammable in presence of open flames and sparks, of heat.
- VII. Explosion Hazards in Presence of Various Substances: Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
- VIII. Fire Fighting Media and Instructions: SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
- IX. Special Remarks on Fire Hazards: Not available
- X. Special Remarks on Explosion Hazards: Not available

6 Accidental Release Measures:

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

7 Handling & Storage:

Precautions: Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Sensitive to light. Store in light-resistant containers.

8 Exposures Control & Personal Protection:

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Safety glasses. Lab coat. Gloves (impervious).

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available

9 Physical & Chemical Properties:

Physical state and appearance:	: Solid.
Odor	: Characteristic. (Slight.)
Taste	: Not available.
Molecular Weight	: 180.25 g/mole
Color	: White to yellowish.
pH (1% soln/water)	: Not available.
Boiling Point	: 264°C (507.2°F) - 270 C @ 733 mm Hg
Melting Point	: 48°C (118.4°F) - 55 C
Critical Temperature	: Not available.
Specific Gravity	: Not available
Vapor Pressure	: Not available.
Vapor Density	: 6.2 (Air = 1)
Volatility	: Not available.
Solubility:	: Soluble in diethyl ether. Insoluble in cold water, hot water. Soluble in 50% alcohol or higher, petroleum ether, propylene glycol, fats, oils, chloroform. Solubility in Alcohol: 4 g/4 ml alcohol. Solubility in Chloroform: 1 g/2 ml chloroform. Solubility in Ether: 1 g/1.2 ml Ether
Odor Threshold	: Not available.
Water/Oil Dist. Coeff.:	: Not available.
Ionicity (in Water):	: Not available.
Dispersion Properties	: See solubility in water, diethyl ether.

10 Stability & Reactivity:

- I. **Stability:** The product is stable.
- II. **Instability Temperature:** Not available.
- III. **Conditions of Instability:** Excess heat, incompatible materials
- IV. **Incompatibility with various substances:** Reactive with oxidizing agents.
- V. **Corrosivity:** Not available.
- VI. **Special Remarks on Reactivity:** Sensitive to light. Degrades after prolonged exposure to sunlight.
- VII. **Special Remarks on Corrosivity:** Not available.
- VIII. **Polymerization:** Will not occur.

11 Toxicological Information:

- I. Routes of Entry: Inhalation. Ingestion.
- II. Toxicity to Animals: Acute oral toxicity (LD50): 1100 mg/kg [Mouse].
- III. CARCINOGENIC EFFECTS: Classified 2B (Possible for human.) by IARC. Classified 2 (Some evidence. Reasonable anticipated to be a human carcinogen) by NTP.
- IV. MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. May cause damage to the following organs: blood, liver, upper respiratory tract, skin.
- V. Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of inhalation (lung irritant). Slightly hazardous in case of ingestion.
- VI. Special Remarks on Toxicity to Animals: Not available.
- VII. Special Remarks on Chronic Effects on Humans: May affect genetic material (mutagenic). May cause adverse reproductive effects based on animal data. May cause cancer based on animal data.
- VIII. Special Remarks on other Toxic Effects on Humans: Acute Potential Health Effects:
Skin: Causes skin irritation. It may cause depigmentation.
Eyes: Causes eye irritation. May cause chemical conjunctivitis. Inhalation: Causes severe respiratory tract irritation.
Ingestion: May be harmful if swallowed. May cause gastrointestinal tract irritation with nausea, vomiting, diarrhea. It may affect behavior/central nervous system (ataxia, altered sleep time), respiration (respiratory stimulation)
Chronic Potential Health Effects:
Skin: Prolonged or repeated skin contact may cause allergic contact dermatitis.
Ingestion: Prolonged or repeated ingestion may affect the blood (hemolysis with or without anemia), metabolism (weight loss), respiratory system, liver, thyroid, adrenal gland.

12 Ecological Information:

1. **Ecotoxicity:** Not available.
2. **BOD5 and COD:** Not available.
3. **Products of Biodegradation:** Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
4. **Toxicity of the Products of Biodegradation:** The products of degradation are less toxic than the product itself
5. **Special Remarks on the Products of Biodegradation:** Not available.

13 Disposal Information:

1. Waste must be disposed of in accordance with federal, state and local environmental control regulations

14 Transport Information:

1. DOT Classification: Not a DOT controlled material (United States).
2. Identification: Not applicable.
3. Special Provisions for Transport: Not applicable.

15 Regulatory Information:

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: BHA

California prop. 65 (no significant risk level): BHA: 4 mg/day (value)

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: BHA

Minnesota: BHA Massachusetts RTK: BHA New Jersey: BHA

California Director's List of Hazardous Substances: BHA TSCA 8(b) inventory: BHA

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS No. 246-563-8).

Canada: Listed on Canadian Domestic Substance List (DSL). China: Listed on National Inventory.

Japan: Listed on National Inventory (ENCS). Korea: Listed on National Inventory (KECI).

Philippines: Listed on National Inventory (PICCS).

Australia: Listed on AICS.

16 Additional Information:

These data are based on our present knowledge. However, they will not constitute a guarantee for any specific product features and will not establish a legal contractual relationship.

Notice:

This material safety data sheet must be made available to all persons who, by the nature of their employment, may handle or come into contact with this material.

Disclaimer:

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