# Safety Data Sheet: Antioxidant 703

## 1. Identification

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| **Product** | Antioxidant 703; CAS 88-27-7; EC 201-816-1 |
| **Use** | Professional industrial ingredient and polymer formulation development. |
| **Company** | Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM) |
| **Address** | Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China |
| **Telephone / email** | +86-21-54265599 / sales@zxchem.com.cn |
| **Emergency contact** | ZXCHEM office number above, office hours, China time (UTC+8). For urgent medical assistance contact local emergency services. |
| **Scope** | Reference safety information for Antioxidant 703. The reference composition, concentration and supply-grade differences are described in Section 3. This document does not certify the composition or transport status of a specific delivered batch or a different formulation. |

## 2. Hazards Identification

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| **Classification** | Acute oral toxicity Category 4; skin and eye irritation Category 2. |
| **Signal word / symbols** | Warning; GHS07 |
| **Hazard statements** | H302: harmful if swallowed. H315/H319: irritates skin and eyes. |
| **Prevention** | Use adequate ventilation; avoid inhaling dust. Prevent skin and eye contact. Wear suitable chemical-resistant gloves and eye protection. Wash after handling; keep food and drink out of the work area. |
| **Response** | After exposure, stop work and seek medical advice. For severe exposure obtain urgent medical care. Rinse contaminated skin or eyes with water; move an inhalation casualty to fresh air. |
| **Environment** | Prevent uncontrolled release to drains, soil or surface water. Collect spills for appropriate disposal. |

## 3. Composition / Information on Ingredients

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| **Reference ingredient** | 2,6-Di-tert-butyl-4-(dimethylaminomethyl)phenol, CAS 88-27-7. Supply melting point ≥92°C; unreported impurity percentages are not inferred. |
| **Supply grade** | Initial melting point ≥92°C |
| **Applicability** | The cited concentration or purity describes the reference material. It is not a certificate of analysis for the delivered batch; different solvents or dilutions require the matching supplier safety document. |

## 4. First-Aid Measures

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| **General** | Protect the rescuer from exposure and show the product information to medical personnel. Obtain medical advice if symptoms occur or exposure is significant. |
| **Inhalation** | Move to fresh air and keep the person comfortable. Seek medical care for breathing difficulty or persistent symptoms. Avoid exposing rescuers to dust. |
| **Skin** | Remove contaminated clothing and rinse skin thoroughly with water. Seek medical advice for persistent irritation. |
| **Eyes** | Rinse gently with clean water for at least 15 minutes. Remove contact lenses when easy and continue rinsing. Seek medical advice if irritation persists. |
| **Ingestion** | Rinse the mouth. Do not induce vomiting. Give nothing by mouth to an unconscious person. Obtain medical advice. |
| **Effects / treatment** | Powder may irritate eyes and skin; swallowing can be harmful. Treatment is symptomatic and directed by a clinician. |

## 5. Fire-Fighting Measures

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| **Extinguishing media** | Use water spray, foam, dry chemical or carbon dioxide suited to the surrounding fire. |
| **Hazards** | Fire can release carbon and nitrogen oxides. |
| **Protection** | Firefighters require suitable protective clothing and self-contained breathing equipment. Prevent contaminated firefighting water entering drains. |

## 6. Accidental Release Measures

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| **Personnel** | Isolate the spill and provide ventilation. Use chemical-resistant gloves and eye protection; avoid contact and dust exposure. |
| **Environment** | Contain the release and protect drains and waterways. Report significant environmental contamination to the responsible authority. |
| **Cleanup** | Collect spilled solid without raising dust into closed labelled containers. |

## 7. Handling and Storage

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| **Handling** | Use enclosed powder feeding or local extraction. Wear suitable protective gloves, eye protection and work clothing; avoid dust inhalation and direct contact. Provide controls for fumes during hot processing. |
| **Storage** | Keep tightly closed in a cool, dry, shaded area, protected from air and moisture. Retain any specified inert-gas storage procedure and separate from oxidizers. |
| **Incompatibilities** | Strong oxidizers. |

## 8. Exposure Controls / Personal Protection

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| **Exposure limits** | No product-specific occupational exposure limit is established here. Control airborne dust and apply current local workplace exposure requirements. |
| **Engineering controls** | Use local extraction where dust can be generated. Maintain accessible eyewash and emergency washing facilities. |
| **Personal protection** | Wear chemical-resistant gloves selected for the task, suitable protective clothing and splash goggles. Add face protection for splash-prone tasks. |
| **Respiratory protection** | Use a properly selected respirator under a respiratory-protection program where engineering controls do not adequately limit airborne exposure. |
| **Hygiene** | Wash after handling, remove contaminated clothing promptly and do not eat, drink or smoke in the work area. |

## 9. Physical and Chemical Properties

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| **Appearance** | White to pale-yellow powder |
| **Formula / molecular weight** | C17H29NO / 263.43 g/mol |
| **Appearance** | White to pale-yellow powder |
| **Initial melting point, supply** | ≥92°C |
| **Molecular weight** | 263.43 g/mol |
| **Other properties** | Additional physicochemical properties beyond the stated values are not established for the supply grade. No unstated values are inferred. |

## 10. Stability and Reactivity

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| **Stability** | Handle and store under the recommended conditions. Prevent contamination and unnecessary heating. |
| **Incompatibilities** | Strong oxidizers. |
| **Decomposition** | Fire can release carbon and nitrogen oxides. |

## 11. Toxicological Information

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|---|---|
| **Exposure effects** | Powder may irritate eyes and skin; swallowing can be harmful. |
| **Reference classification** | Acute oral toxicity Category 4; skin and eye irritation Category 2. |
| **Toxicological data** | The reference does not provide complete numerical acute or chronic toxicity data for the supplied grade. No absence of effects is inferred. |

## 12. Ecological Information

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| **Environmental effects** | Prevent discharge to soil, drains and receiving water. Retain cleanup waste; the reference does not establish complete environmental fate data for the supplied grade. |
| **Controls** | Prevent uncontrolled release, collect spills and dispose of contaminated material through an authorized route. |
| **Assessment** | No product-specific PBT/vPvB assessment is claimed. Absence of data does not establish absence of environmental effects. |

## 13. Disposal Considerations

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| **Product** | Collect surplus product and contaminated cleanup material for disposal by an authorized chemical-waste contractor in accordance with local requirements. |
| **Packaging** | Containers may retain product residues. Do not reuse contaminated packaging without an approved cleaning process; use an authorized disposal route. |

## 14. Transport Information

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| **Classification** | Non-dangerous goods |
| **UN number** | Not assigned |
| **Shipping name** | Not regulated as dangerous goods |
| **Class / packing group** | ADR, IMDG and IATA: non-dangerous goods in the full current solid reference. |
| **Transport precautions** | Protect packaging and closures from damage, secure loads and prevent releases. This reference is not a shipping declaration for a specific consignment. |

## 15. Regulatory Information

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| **Identity** | Antioxidant 703; CAS 88-27-7; EC 201-816-1 |
| **HS reference** | 292229; reference heading rather than a destination customs ruling. |
| **Compliance** | Apply applicable workplace, environmental and transport rules. A raw-material listing does not establish finished-product authorization. |
| **Assessment** | No ZXCHEM-specific chemical safety assessment or destination registration is asserted. |

## 16. Other Information

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| **Hazard meanings** | H302: harmful if swallowed. H315/H319: irritates skin and eyes. |
| **Limitations** | Prepared as reference safety information for the identified material. It is not a batch analytical certificate or safety assessment of a different solvent-containing formulation. |
| **Revision** | 2026.2; prepared 2026-10-06. Customer-document branding and title corrected; technical safety data retained. |
| **Document scope** | Reference safety information for the material and grade described in Sections 1 and 3. Different concentrations, solvents or formulations require the applicable safety information. This is not a batch analytical certificate. |

Revision: 2026.2 | Revision date: 2026-10-06