



## SAFETY DATA SHEET

### SECTION 1 : IDENTIFICATION

Product identifier used on the label:

Product Name: **AO 701**

Other means of identification:

Product Description: Antioxidant 701 is an ash-less Hindered Phenolic oxidation inhibitor

Synonyms: 2,6-Di-Tertiary-BUTYLPHENOL

Recommended use of the chemical and restrictions on use:

Product Use/Restriction: Chemical intermediate

Chemical distributor, or other responsible party Name, address, and telephone number:

Distributor Name: Western Reserve Chemical Corporation

Address: 4837 Darrow Road  
Stow, OH 44224  
USA

General Phone Number: 330 650 2244

General Fax Number: 330 650 2255

Emergency phone number:

Emergency Phone Number: Chemtrec 1 800 424 9300 USA

Website: [www.wrchem.com](http://www.wrchem.com)

### SECTION 2 : HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

GHS Pictograms:



Signal Word: **WARNING!**

GHS Class: Acute oral toxicity - Category 4  
Skin Corrosion/Irritation - Category 2  
Serious Eye Damage/Eye Irritation - Category 2

Hazard Statements: Harmful if swallowed. Causes skin irritation. Causes serious eye irritation.

Precautionary Statements: \* Wash hands thoroughly after handling.  
\* Do not eat, drink or smoke when using this product.  
\* Wear protective gloves/protective clothing/eye protection/face protection.  
\* IF ON SKIN: Wash with plenty of soap and water.  
\* If skin irritation or rash occurs: Get medical advice/attention.  
\* Wash contaminated clothing before reuse.  
\* IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. U=If irritation persists, get medical attention.  
\* IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.  
\* Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.

Hazards not otherwise classified that have been identified during the classification process:

Route of Exposure: Eyes. Skin. Inhalation. Ingestion.

Potential Health Effects: Harmful if swallowed.  
May cause irritation to eyes and skin.  
May affect mucous membranes.  
May cause blood chemistry changes.  
May cause gastrointestinal disturbances.  
May alter the body's biochemistry.  
May affect the respiratory system.  
May affect the liver.

Target Organs: Liver.

### SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
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## SECTION 4 : FIRST AID MEASURES

### Description of necessary measures:

<b>Eye Contact:</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention. These symptoms may result from an emergency or an unexpected acute overexposure: Irritation
<b>Skin Contact:</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention. These symptoms may result from an emergency or an unexpected acute overexposure: Irritation or Rash
<b>Inhalation:</b>	Remove from exposure, lie down. Move to fresh air. If not breathing, give artificial respiration. Obtain medical attention. These symptoms may result from an emergency or an unexpected acute overexposure: Irritation, respiratory tract.
<b>Ingestion:</b>	Rinse mouth with water. Get medical attention. These symptoms may result from an emergency or an unexpected acute overexposure: Gastritis

### Indication of immediate medical attention and special treatment needed:

**Note to Physicians:** Treat symptomatically

## SECTION 5 : FIRE FIGHTING MEASURES

### Suitable and unsuitable extinguishing media:

**Suitable Extinguishing Media:** Water spray. Carbon dioxide (CO<sub>2</sub>). Dry chemical. chemical foam.

**Unsuitable extinguishing media:** No Information Provided.

### Specific hazards arising from the chemical:

**Hazardous Combustion Byproducts:** Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>)

**Unusual Fire Hazards:** Keep product and empty container away from heat and sources of ignition. Material can accumulate static charges from material handling management. Bond and ground as appropriate.

### Special protective equipment and precautions for fire-fighters:

**Protective Equipment:** As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures:

**Personal Precautions:** Use proper personal protective equipment as listed in Section 8.

### Environmental precautions:

**Environmental Precautions:** Avoid release to the environment.

### Methods and materials for containment and cleaning up:

**Methods for containment:** Stop the flow of material, if this is without risk. Eliminate sources of ignition. Ventilate the contaminated area. Material will be hot as liquid. One may consider allowing the material to cool as part of a response plan. Contain the spill and prevent the material from obtaining access to any confined spaces, public sewers, or waterways.

**Methods for cleanup:** Ventilate the contaminated area. Eliminate ignition sources including sources of electrical, static, or frictional sparks. Material will be HOT when in liquid state. Be sure absorbents used can withstand the temperature. One may wish to allow it to cool before attempting to collect the material using absorbents, non-sparking tools, explosion-proof vacuums or other equipment required by the size of the release. Sweep up or gather material and place in appropriate container for disposal.

## SECTION 7 : HANDLING and STORAGE

### Precautions for safe handling:

**Handling:** Avoid dust formation. Use with adequate ventilation. Use spark-proof tools and explosion-proof equipment.

**Hygiene Practices:** Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling vapor or mist. When using, do not eat, drink or smoke.

### Conditions for safe storage, including any incompatibilities:

**Storage:** Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, and incompatible substances. Keep container tightly closed when not in use. The storage drum, when emptied, can contain vapor, liquid or solid residues that may be hazardous. Containers should be bonded and grounded during transfer of material.

**Specific end use(s):**

**Work Practices:** Use explosion proof motors and equipment. Handle in accordance with good industrial hygiene and safety practices.

## SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

**EXPOSURE GUIDELINES:**

**Appropriate engineering controls:**

**Engineering Controls:** Ventilation should be sufficient to effectively remove and prevent buildup of any vapors, dusts, or fumes that may be generated during handling and thermal processing.

**Individual protection measures:**

**Eye/Face Protection:** Chemical goggles. Wear a face shield if a splash hazard exists.

**Skin Protection Description:** Wear suitable coveralls if skin contact is expected.

**Hand Protection Description:** Impervious gloves.

**Respiratory Protection:** Use respiratory protection in accordance with your company's respiratory protection program, local regulations and OSHA regulations under 29 CFR 1910.134.

**Other Protective:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**PPE Pictograms:**



## SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

**PHYSICAL AND CHEMICAL PROPERTIES:**

**Physical State:** Solid

**Physical State Appearance:** Solid or molten liquid.

**Color:** White to yellow.

**Odor:** No Information Provided.

**Boiling Point:** 253 °C / 487.4 °F

**Melting Point:** 36 °C / 97 °F

**Density:** 7.6 lb/gal

**Specific Gravity:** 0.91 @ 68 **1**/20**1**

**Solubility:** 0.03% in water.

**Vapor Pressure:** >Air. 0.35mmHg/70**1**,0.01kpa/20**1**

**Molecular Formula:** C14-H22-O

**Molecular Weight:** 206.33

**Flash Point:** >116 °C / 240 °F

**Lower Flammable/Explosive Limit:** No Information Provided.

**Upper Flammable/Explosive Limit:** No Information Provided.

**Auto Ignition Temperature:** No Information Provided.

## SECTION 10 : STABILITY and REACTIVITY

**Reactivity:**

**Reactivity:** None known, based on information available

**Chemical Stability:**

**Chemical Stability:** Stable under normal temperatures and pressures. Stable under normal temperatures and pressures.

**Possibility of hazardous reactions:**

**Hazardous Polymerization:** None under normal processing.

**Conditions To Avoid:**

**Conditions to Avoid:** Keep away from heat, ignition sources and incompatible materials. Avoid generation of dusts.

**Incompatible Materials:**

**Incompatible Materials:** Strong oxidizers, Acids.

**Hazardous Decomposition Products:**

**Special Decomposition Products:** Carbon monoxide (CO), Carbon dioxide (CO2)

## SECTION 11 : TOXICOLOGICAL INFORMATION

### TOXICOLOGICAL INFORMATION:

**Skin:** Dermal LD50s: 2,6-di-tert-butyl phenol 128-39-2 :  
Dermal LD50 [rabbit]: >10000 mg/kg

**Ingestion:** Oral LD50: 2,6-di-tert-butyl phenol 128-39-2  
Oral LD50 [mouse]: 800 mg/k

## SECTION 12 : ECOLOGICAL INFORMATION

**Environmental Fate:** 2,6-di-tert-butyl phenol Artificial Sources: emissions & wastes from its uses as an antioxidant & chemical intermediate. Terrestrial Fate: low mobility; biodegrades. Aquatic Fate: may adsorb to sediments; volatilizes [half-lives: river ~17 days; lake ~130 days]; biodegrades [BOD5 <50 %]. Atmospheric Fate: photochemically degrades [half-life ~8 hours].

### Bioaccumulative potential:

**Bioaccumulation:** 2,6-di-tert-butyl phenol Aquatic Toxicity: may bioaccumulate.

## SECTION 13 : DISPOSAL CONSIDERATIONS

### Description of waste:

**Waste Disposal:** If this product becomes a waste, it is not a hazardous waste. As a non-hazardous waste, it is not subject to national regulation. Consult state or local regulation for any additional handling, treatment or disposal requirements. For disposal, contact a properly licensed waste treatment, storage, disposal or recycling facility.

**Contaminated Packaging:** When the container(s) is empty it may retain product residue including vapors which could accumulate. Therefore, do not cut, drill, grind, or weld empty containers. Additionally, do not conduct such activity(ies) near full, partially full, or empty product containers without appropriate workplace safety authorization(s) or permit(s).

## SECTION 14 : TRANSPORT INFORMATION

**DOT Shipping Name:** Environmentally hazardous substances, solid, n.o.s., molten,(2,6-di-tert-butylphenol)

**DOT UN Number:** UN3077

**DOT Hazard Class:** 9

**DOT Packing Group:** III

**DOT Pictograms:** 

**IATA Shipping Name:** Chemicals n.o.i.b.n., not restricted, 2,6-di-tert-butylphenol

**IATA UN Number:** UN3077

**IATA Hazard Class:** 9

**IATA Packing Group:** III

**IMDG UN Number :** UN3077

**IMDG Shipping Name :** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., MOLTEN (2,6-di-tert-butylphenol)

**IMDG Hazard Class :** 9

**IMDG Packing Group :** III

## SECTION 15 : REGULATORY INFORMATION

### Safety, health and environmental regulations specific for the product:

**TSCA Inventory Status:** Listed

**TSCA 12(b) Export Notification:** Not applicable.

**Risk Phrases:** R36 - Irritating to eyes. R38 - Irritating to skin. R41 - Risk of serious damage to eyes. R22 - Harmful if swallowed.

**Safety Phrase:** S24/25 - Avoid contact with skin and eyes. S36/39 - Wear suitable protective clothing and eye/face protection. S 3/9/49 - Keep only in the original container in a cool, well-ventilated place. S29/35 - Do not empty into drains; dispose of this material and its container in a safe way.

## SECTION 16 : ADDITIONAL INFORMATION

### HMIS Ratings:

**HMIS Health Hazard:** 2

**Health Hazard** 2

HMIS Fire Hazard: 1  
HMIS Reactivity: 0  
HMIS Personal Protection: J

<b>Fire Hazard</b>	<b>1</b>
<b>Reactivity</b>	<b>0</b>
<b>Personal Protection</b>	<b>J</b>

SDS Creation Date: April 13, 2018

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Notes : Important Note: This information relates to the specific product described herein and may not be valid for this material when used in combination with other raw materials. The information provided is without warranty regarding its accuracy or completeness. The information may not be valid under all conditions. The user has the final responsibility for determining the suitability of the product in a given application.

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