

## MATERIAL SAFETY DATA SHEET

: According to EC-directive 2001/58/EC

Rubber Antioxidant 2246(BKF)

HS Code: 29071190.00

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product label name</b>	2,2' -Methylene bis (4-methyl-6-tert-butyl phenol) Qingdao YLSCH Industry&Trade Co.,Ltd
<b>Supplier</b>	Room 501,2-3 Unit. No.8,Zhengzhou Road, Qingdao,China. TEL: +86 18661665800
<b>Emergency telephone</b>	TEL: +86 18661665800
<b>Intended use</b>	Rubber Antioxidant

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Chemical name</b>	2,2' -Methylene bis (4-methyl-6-tert-butyl phenol)
<b>CAS NO.</b>	119-47-1
<b>Chemical description</b>	White powder
<b>TSCA NO.</b>	none
<b>EINECS NO.</b>	none
<b>Other information</b>	C <sub>23</sub> H <sub>32</sub> O <sub>2</sub>

### 3. HAZARDS IDENTIFICATION

Risk advice to man and the environment May cause long-term adverse effects in the aquatic environment.

### 4. FIRST AID MEASURES

<b>Symptoms and effects</b>	Dust may be irritating to the respiratory tract and cause symptoms of bronchitis. Repeated contact may cause skin sensitization.
<b>First aid</b>	
<b>General</b>	In all cases of doubt, or when symptoms persist, seek medical attention.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, seek medical advice. Remove all contaminated clothing immediately. Wash off with plenty of soap and water.
<b>Skin</b>	Seek medical advice if irritation develops. Launder clothes before reuse.

<b>Eye</b>	Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation develops.
<b>Ingestion</b>	If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.
<b>Advice to physician</b>	Treat symptomatically. Monitor respiratory system function.

## 5. FIRE-FIGHTING MEASURES

<b>Extinguishing media</b>	waterspray, foam, dry chemical powder, CO <sub>2</sub> .
<b>Unsuitable extinguishing media</b>	Waterjet.
<b>Special exposure hazards</b>	Emits toxic fumes under fire conditions.
<b>Hazardous decomposition/ Combustion products</b>	Carbon monoxide (CO), carbon dioxide (CO <sub>2</sub> ), nitrous gases (NO <sub>x</sub> ).
<b>Protective equipment</b>	Wear self contained breathing apparatus.
<b>Other information</b>	Do not allow run-off from fire fighting to enter drains or water courses.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	For personal protection see Section 8. Avoid dust generation.
<b>Methods for cleaning up</b>	Collect as much as possible in a clean container for (preferable) reuse or disposal.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Avoid contact with skin. Avoid dust generation.
<b>Storage requirements</b>	Store in a dry and cool place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Engineering controls</b>	Avoid dust generation. Ensure good ventilation and local exhaustion of the working area.
<b>Exposure limits</b>	
<b>Name:</b> 2,2' -Methylene bis (4-methyl-6-tert-butyl phenol)	
<b>Personal protection</b>	
<b>Respiratory</b>	Avoid breathing dust. In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Hand</b>	Wear suitable gloves.



<b>Eye</b>	Wear safety goggles.
<b>Skin and body</b>	Wear suitable protective clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	White powder	<b>Colour</b>	White
<b>Odour</b>	----	<b>Boiling point</b>	----
<b>Melting point<math>\geq</math></b>	120°C	<b>Flash point</b>	149°C
<b>Flammability</b>	----	<b>Explosion limits</b>	----
<b>Explosive properties</b>	----	<b>Autoignition temperature</b>	----
<b>Oxidizing properties</b>	not applicable	<b>Ashes % max</b>	----
<b>Density</b>	----	<b>Loss on drying(%)<math>\leq</math></b>	----
<b>Solubility in water</b>	----	<b>Solubility in other solvents</b>	Ethanol, acetone,benzene,oil
<b>pH value</b>	----	<b>Steam pressure at 100°C</b>	----
<b>Residues (150um)% Max</b>	$\leq 0.5$	<b>Heating Loss % Max</b>	----
<b>Viscosity</b>	----	<b>Assay content % <math>\geq</math></b>	96.0
<b>Strength of grain (N)</b>	----	<b>Zinc content %</b>	----

**10. STABILITY AND REACTIVITY**

<b>Stability</b>	Stable under recommended storage and handling conditions (see section 7).
<b>Conditions to avoid</b>	
<b>Materials to avoid</b>	Strong oxidizing agents,strong bases.
<b>Hazardous decomposition products</b>	No decomposition if stored and applied as directed.

**11. TOXICOLOGICAL INFORMATION**

<b>Name</b>	2,2' -Methylene bis (4-methyl-6-tert-butyl phenol)
<b>Acute toxicity</b>	
<b>Oral LG50</b>	Rats: >2,000mg/kg
<b>Dermal LD50</b>	Rabbits: >2,000mg/kg
<b>Irritation</b>	
<b>Skin</b>	Not sensitizing.
<b>Eye</b>	Not irritant.

## 12. ECOLOGICAL INFORMATION

<b>Name</b>	2,2' -Methylene bis (4-methyl-6-tert-butyl phenol)
<b>Ecotoxicity</b>	
<b>Fish</b>	Unspecified fish 96h,LC50 > 100mg/l Unspecified fish 24h,EC50 > 100mg/l
<b>Algae</b>	
<b>Degradation Biotic</b>	Not readily biodegradable.

## 13. DISPOSAL CONSIDERATIONS

<b>Product</b>	Avoid discharge into the environment Small quantities: According to local regulations. Large quantities: Consult YLSCH Chemical for special advice.
<b>Contaminated packaging</b>	According to local regulations. Waste code number: Please refer to your specific industry
<b>Other information</b>	in the European Waste Catalogue.

## 14. TRANSPORT INFORMATION

### Land transport (ADR/ RID)

<b>ADR class</b>	----	<b>RID class</b>	----
<b>ADR/RID packing group</b>	----	<b>Hazard Identification No.</b>	----
<b>Substance Identification No.</b>	----	<b>UN number</b>	----

**Proper Shipping Name** (2,2' -Methylene bis (4-methyl-6-tert-butyl phenol))

### Sea transport (IMDG-code/ IMO)

<b>Correct technical name</b>	-----	<b>IMDG Class</b>	
<b>UN Number</b>	-----	<b>Packaging group</b>	
<b>EMS Number</b>	----		

### Air transport (ICAO-TI/ IATA-DGR)

<b>ICAO-TI/IATA-DGR Class</b>	----	<b>UN number</b>	----
<b>Packing group</b>	.		
<b>Correct technical name</b>	(2,2' -Methylene bis (4-methyl-6-tert-butyl phenol))		

## 15. REGULATORY INFORMATION

---

<b>Chemical description</b>	2,2' -Methylene bis (4-methyl-6-tert-butyl phenol)
<b>Labelling according to EC directives</b>	
<b>EC-number</b>	See section 2
<b>Classification based on</b>	Annex-1 to directive 67/548/EEC
<b>R(isk) phrase(s)</b>	R53:May cause long-term adverse effects in the aquatic environment.
<b>S(afety) phrase(s)</b>	S60: This material and its container must be disposed of as hazardous waste.
<b>Other information</b>	To be displayed on the label: "EC label".
<b>Wassergefährdungsklasse (WGK)</b>	----

---

## 16.OTHER INFORMATION

---

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

---