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## MATERIAL SAFETY DATA SHEET

: According to EC-directive 2001/58/EC

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Rubber Antioxidant BHT(264)

HS Code: 29071190.00

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### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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<b>Product label name</b>	2,6-di-tert-butyl-4-methyl 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

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

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<b>Chemical name</b>	2,6-di-tert-butyl-4-methyl phenol
<b>CAS NO.</b>	128-37-0
<b>Chemical description</b>	White crystallize granule
<b>TSCA NO.</b>	none
<b>EINECS NO.</b>	none
<b>Other information</b>	C <sub>15</sub> H <sub>24</sub> O

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### 3. HAZARDS IDENTIFICATION

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Repeated contact may cause skin sensitization. Can cause eye irritation.Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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### 4. FIRST AID MEASURES

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<b>Symptoms and effects</b>	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 not breathing, give artificial respiration or give oxygen by trained personnel Keep warm. Get immediate medical attention.
<b>Skin</b>	Remove all contaminated clothing immediately. Wash off with plenty of soap and water for at least 20 minutes. Seek medical advice if irritation develops. Launder clothes before reuse.

<b>Eye</b>	Rinse thoroughly with plenty of water for at least 20 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation develops. If swallowed, call a physician or poison control center immediately.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Do not induce vomiting unless instructed by medical personnel. Get medical attention.
<b>Advice to physician</b>	No specific recommendations.

## 5. FIRE-FIGHTING MEASURES

<b>Extinguishing media</b>	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).
<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>Environmental precautions</b>	Avoid discharge into the environment. Collect as much as possible in a clean container for
<b>Methods for cleaning up</b>	(preferable) reuse or disposal.

## 7. ACCIDENTAL RELEASE MEASURES

<b>Handling</b>	This product should be handled only by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals, who should take into account the fire, health and chemical hazard data. It should always be handled in an efficient fume hood or equivalent system. The user should consider that the toxicological and physiological properties of many compounds are not yet well determined and that new hazardous products may arise from reactions between chemicals. Care should be taken to prevent any chemical from coming into contact with the skin or eyes and from contaminating personal clothing.
<b>Hygiene Practices</b>	Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling dust.
<b>Storage requirements</b>	Store in a cool, dry, well ventilated area away from sources of heat and incompatible substances. Keep container tightly closed when not in use.

**8. ACCIDENTAL RELEASE MEASURES**

<b>Engineering controls</b>	Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.
<b>Exposure limits</b>	
<b>Name:</b> 2,6-di-tert-butyl-4-methyl phenol	ACGIH-TWA 2.0 mg/m <sup>3</sup>
<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. HANDLING AND STORAGE**

<b>Appearance</b>	White crystallize granule	<b>Colour</b>	White crystallize
<b>Odour</b>	----	<b>Boiling point</b>	257-265°C
<b>Melting point</b> ≥	67°C	<b>Flash point</b>	127°C
<b>Flammability</b>	Solid:substance:not (in)flammable.	<b>Explosion limits</b>	----
<b>Explosive properties</b>	Dust:dust-explosion hazard	<b>Autoignition temperature</b>	470°C
<b>Oxidizing properties</b>	not applicable	<b>Ashes % max</b>	0.10
<b>Free phenol (p-cresol) %</b> ≤	0.1	<b>Loss on drying(%)</b> ≤	----
<b>Solubility in water</b>	0.4mg/L 20° C (68° F)	<b>Solubility in other solvents</b>	Benzene, toluene, alcohol, ketone, carbon tetrachloride, ethylacetate and petrol
<b>pH value</b>	----	<b>Steam pressure at 100°C</b>	267Pa
<b>Residues (150um)% Max</b>	≤0.1	<b>Heating Loss % Max</b>	----
<b>Viscosity</b>	----	<b>Assay content %</b> ≥	95.0
<b>Strength of grain (N)</b>	0.6-2.5	<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>	High temperatures, flames and sparks.
<b>Materials to avoid</b>	Oxidizing agents, halogens, alkali metals.
<b>Hazardous decomposition products</b>	Thermal decomposition products: carbon monoxide (CO).

## 11. TOXICOLOGICAL INFORMATION

<b>Name</b>	2,6-di-tert-butyl-4-methyl phenol
<b>Acute toxicity</b>	
<b>Oral LG50</b>	rat:890 mg/kg.
<b>Dermal LD50</b>	Oral - mouse LD50: 650 mg/kg
<b>Irritation</b>	
<b>Skin</b>	Slightly irritating to skin but not sufficient for classification.
<b>Eye</b>	Moderate irritation.

## 12. ECOLOGICAL INFORMATION

<b>Name</b>	2,6-di-tert-butyl-4-methyl phenol
<b>Ecotoxicity</b>	
<b>Fish</b>	
<b>Daphnia</b>	
<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>	9	<b>RID class</b>	9
<b>ADR/RID packing group</b>	III	<b>Hazard Identification No.</b>	90
<b>Substance Identification No.</b>	3077	<b>UN number</b>	3077
<b>Correct technical name</b>	----	<b>IMDG Class</b>	

	Environmentally hazard us substance, solid, n.o.s.		
<b>Proper Shipping Name</b>	(2,6-di-tert-butyl-4-methyl phenol)		
<b>Sea transport (IMDG-code/ IMO)</b>			
<b>UN Number</b>	----		
	<b>Packaging group</b>		
<b>EMS Number</b>	----		
<b>Air transport (ICAO-TI/ IATA-DGR)</b>			
<b>ICAO-TI/IATA-DGR Class</b>	9	<b>UN number</b>	3077
<b>Packing group</b>	Environmentally hazardous substance, solid, n.o.s.		
<b>Correct technical name</b>	(2,6-di-tert-butyl-4-methyl phenol)		

## 15.REGULATORY INFORMATION

<b>Chemical description</b>	2,6-di-tert-butyl-4-methyl 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>	R22 Harmful if swallowed. R36/38 Irritating to eyes and skin.
<b>S(afety) phrase(s)</b>	S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
<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.