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## MATERIAL SAFETY DATA SHEET

: According to EC-directive 2001/58/EC

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Rubber Antioxidant SP(SPB)

HS Code: 29071190.00

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### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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<b>Product label name</b>	Styrenated phenols 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>	Styrenated phenols
<b>CAS NO.</b>	61788-44-1
<b>Chemical description</b>	Light or off-white granule
<b>TSCA NO.</b>	none
<b>EINECS NO.</b>	none
<b>Other information</b>	----

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### 3. HAZARDS IDENTIFICATION

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Keep away from heat, sparks, and flame. Burning material emits highly toxic vapors. This material may cause transient skin and eye irritation

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### 4. FIRST AID MEASURES

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<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.
<b>Skin</b>	Remove all contaminated clothing immediately. Wash off with plenty of soap and water. 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>	No specific recommendations.

## 5. FIRE-FIGHTING MEASURES

<b>Extinguishing media</b>	Water mist, foam, dry chemical powder, CO <sub>2</sub>
<b>Unsuitable extinguishing media</b>	Waterjet
<b>Special exposure hazards</b>	Fight fire from a safe distance and from a protected location. Use water spray to cool fire exposed surfaces. Decomposition in fire may produce toxic gases.
<b>Hazardous decomposition/ Combustion products</b>	Carbon monoxide (CO) ,carbon dioxide(CO <sub>2</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>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. HANDLING AND STORAGE

<b>Handling</b>	Good hygienic practices should be observed. Work clothes should be washed separately at the end of each work day. Disposable clothing should be discarded with material. Avoid contact with eyes, skin and clothing. Reclose containers of unused product. Wash hands before eating, drinking, and chewing gum, using tobacco or using the toilet. Do not reuse this container.
<b>Storage requirements</b>	Store in a dry and cool place. avoid exposure to direct sunlight.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering controls** Avoid dust generation.Ensure good ventilation and local exhaustion of the working area.

**Exposure limits**

**Name:**Styrenated phenols ACGIH-TWA 19 mg/m3

**Personal protection**

**Respiratory** Avoid breathing dust. In case of insufficient ventilation, wear suitable respiratory equipment.

**Hand** Wear suitable gloves.

**Eye** Wear safety goggles.

**Skin and body** Wear suitable protective clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Light or off-white granule	<b>Colour</b>	Light or off-white
<b>Odour</b>	None	<b>Boiling point</b>	>250℃
<b>Melting point</b> ≥	----	<b>Flash point</b>	182℃
<b>Flammability</b>	Solid:substance:not (in)flammable.	<b>Explosion limits</b>	----
<b>Explosive properties</b>	Dust:dust-explosion hazard	<b>Decomposition temperature</b>	----
<b>Oxidizing properties</b>	not applicable	<b>Ashes % Max.</b>	32
<b>Density</b>	not applicable	<b>Loss on drying(%)</b>	----
<b>Solubility in water</b>	Insoluble	<b>Solubility in other solvents</b>	Benzene,alcohol, acetone
<b>pH value</b>	5.5-8.5	<b>Partition coefficient</b>	----
<b>Residues (150um)% Max</b>	----	<b>Heating Loss % Max</b>	----
<b>Viscosity</b>	4000-5500 cps @ 25° C 2.00-6.00 mPa.s @25° C	<b>Assay content % ≥</b>	----
<b>Strrength 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>	Keep away from heat,sparks and flame. Avoid contact with strong oxidants such as liquid chlorine and concentrated oxygen
<b>Materials to avoid</b>	Contact with oxidizing agents. Contact with air.
<b>Hazardous decomposition products</b>	Thermal decomposition products: carbon monoxide (CO), carbon dioxide(CO <sub>2</sub> )

**11. TOXICOLOGICAL INFORMATION**



**YLSCH-RBB**

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<b>Name</b>	Styrenated phenols
<b>Acute toxicity</b>	
<b>Oral LG50</b>	rat: 3550mg/kg.
<b>Dermal LD50</b>	rabbit: >7940 mg/kg.
<b>Irritation</b>	
<b>Skin</b>	May cause skin defatting with prolonged exposure.
<b>Eye</b>	Causes mild eye irritation

## 12. ECOLOGICAL INFORMATION

<b>Name</b>	Styrenated phenols
<b>Ecotoxicity</b>	
<b>Fish</b>	
<b>Daphnia</b>	
<b>Algae</b>	
<b>Fate</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

<b>Land transport (ADR/ RID)</b>			
<b>ADR class</b>	----	<b>RID class</b>	----
<b>ADR/RID packing group</b>	III	<b>Hazard Identification No.</b>	----
<b>Substance Identification No.</b>	3077	<b>UN number</b>	3077
Environmentally hazard us substance, solid, n.o.s.			
<b>Proper Shipping Name</b>	(Styrenated phenols)		
<b>Sea transport (IMDG-code/ IMO)</b>			

<b>Correct technical name</b>	----	<b>IMDG Class</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>	----	<b>UN number</b>	----
<b>Packing group</b>	Environmentally hazardous substance, solid, n.o.s.		
<b>Correct technical name</b>	(Styrenated phenols)		

## 15. REGULATORY INFORMATION

<b>Chemical description</b>	Styrenated phenols
<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>	R 43 May cause sensitization by skin contact R50/53 Very Innoxious to aquatic organisms, may cause long-term adverse effects in the aquatic environment
<b>S(afety) phrase(s)</b>	S 24 Avoid contact with skin S 37 Wear suitable gloves S 60 This material and its container must be disposed of as hazardous waste S 61 Avoid release to the environment. Refer to special instructions/Safety data sheets
<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.