

Room 501,2-3 Unit No.8,Zhengzhou Road,Qingdao,China. TEL: <u>86 18661665800</u> Email: <u>Dana@ylsch-rbb.com</u> Website: <u>www.ylsch-rbb.com</u>

### **MATERIAL SAFETY DATA SHEET**

: According to EC-directive 2001/58/EC

Vulcanizing agent IS 60 OT10 HS Code:38249999.90

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product label name Insoluble sulfur 60 OT10 (Polymeric Sulfur)

Qingdao YLSCH Industry&Trade Co.,Ltd

**Supplier** Room 501,2-3 Unit. No.8,Zhengzhou Road,

Qingdao, China.

TEL: +86 18661665800

Emergency telephone TEL: +86 18661665800

Intended use Rubber Vulcanizing agent

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name Insoluble sulfur 60 OT10 (Polymeric Sulfur)

Polymeric Sulfur 9035-99-8

CAS NO. Rhombic Sulfur 7704-34-9

High pressure and hydrotreated naphthenic oil 64742-52-5

Chemical description Non-rised yellow powder

TSCA NO. none

EINECS NO. none

Other information S<sub>8</sub>

### 3. HAZARDS IDENTIFICATION

Not classified as hazardous according to the EEC Dangerous Substance Directive and Dangerous Preparation Directive. Dust explosion possible in the presence of air. Dust suspended in air ignites easily. Burning sulfur emits highly toxic gases.

### 4. FIRST AID MEASURES

Dust may be irritating to the respiratory tract and cause symptoms of

Symptoms and effects bronchitis.

Ingestion: The product produces characteristic stomach breath odour, nausea

or vomiting.

Eye: Particulates of the material may cause mechanical irritation.

Skin: In case of prolonged contact: Slight irritation. In case of repeated



Room 501,2-3 Unit No.8,Zhengzhou Road,Qingdao,China. TEL: <u>86 18661665800</u> Email: <u>Dana@ylsch-rbb.com</u> Website: <u>www.ylsch-rbb.com</u>

contact: Risk of dermatitis.

First aid

**General** In all cases of doubt, or when symptoms persist, seek medical attention.

**Inhalation** Move to fresh air. If symptoms persist, seek medical advice.

Skin Remove all contaminated clothing immediately. Wash off with plenty of soap

and water.

Seek medical advice if irritation develops. Launder clothes before reuse.

Eye Rinse thoroughly with plenty of water. Eyelids should be held away from

the eyeball to ensure thorough rinsing.

Seek medical advice if irritation develops.

**Ingestion** Rinse mouth, give water to drink. Seek medical advice.

Advice to physician Symptomatic treatment is advised.

### 5. FIRE-FIGHTING MEASURES

Extinguishing media

Large quantities of water, waterspray, water mist, foam, dry chemical

powder, CO<sub>2</sub>, sand.

Unsuitable extinguishing media Waterjet

Combustible powder. Dust explosion possible in the presence of air.

Special exposure hazards Burns with nearly invisible flame. Emits toxic and corrosive fumes under

fire conditions.

Hazardous decomposition/ combustion products

Sulfur oxides (SOx): May cause delayed pulmonary oedema.

**Protective equipment**Wear self-contained breathing apparatus.

Evacuate all non-essential personnel.

Because of dangers of toxic effects, warn people to shelter indoors.

Close doors and windows and stop ventilation. Approach down wind.

Other information Avoid dispersing the dust into clouds when using extinquishing means.

If safe to do so, remove the exposed containers, or cool

with large quantities of water.

Do not allow run-off from fire fighting to enter drains or watercourses.

Thoroughly clean equipment after use.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions** For personal protection see Section 8.

Avoid dispersing the dust into clouds.

Eliminate all sources of ignition, and do not generate flames or sparks.

**Environmental precautions** Do not flush into public watercourses. Avoid discharge into the environment.

Collect as much as possible in a clean container for (preferable) reuse or

Methods for cleaning up disposal. Do not use hair-brooms and plastic-brooms. Rinse remnant with



Room 501,2-3 Unit No.8,Zhengzhou Road,Qingdao,China. TEL: <u>86 18661665800</u> Email: <u>Dana@ylsch-rbb.com</u> Website: <u>www.ylsch-rbb.com</u>

plenty of water. Refer to section 13 for disposal of spilled material.

### 7. HANDLING AND STORAGE

Handling	Keep away from sources of ignition - No smoking! Use non-sparking
	handtools. Avoid dispersing the dust into clouds.
	Carry out industrial operations in closed piping circuits and equipment.
	Use electrically conductive materials for piping circuits and equipment.
	Avoid contact with eyes.
	Good industrial practice in housekeeping and personal
	hygiene should be followed.
	Dust/air mixtures may ignite violently upon exposure to sparks or sources of
Fire and explosion prevention	ignition.Dust explosion class (VDI 2263): St 1.
	Avoid dust accumulation. Avoid dispersing the dust into clouds.
	Eliminate all sources of ignition, and do not generate flames or sparks.
	Prevent electrostatic discharges. Use grounded equipment.
	Totally or partially inert closed equipment to reduce oxygen content below
	7%. Minimize vertical drop distance in chutes and hoppers to prevent
	generation of dust clouds and static electrical charge.
Storage requirements	Store away from sources of heat and ignition. Store away from reactive
	products (refer to sec. 10). Keep the original package or container closed if
	not in use.Protect from direct sunlight.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Skin and body	Wear suitable protective clothing.	
Eye	Wear safety goggles.	
Hand	Wear suitable gloves.	
	In case of decomposition, face mask with type E-P2 cartridge.	
Respiratory	Avoid breathing dust. In case of dust formation use dust mask.	
Personal protection		
Name:Insoluble sulfur 60 OT10 (Polymeric Sulfur)	OES-TWA 10.0 mg/m3 (total inhalable dust))	
	The following data are applicable to the ingredient(s) listed below.	
Exposure limits	No exposure limits have been established for this material.	
	exhaustion of the working area.	
Engineering controls	Avoid dust generation. Ensure good ventilation and local	



Room 501,2-3 Unit No.8,Zhengzhou Road,Qingdao,China. TEL: <u>86 18661665800</u> Email: <u>Dana@ylsch-rbb.com</u> Website: <u>www.ylsch-rbb.com</u>

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Non-rised yellow powder	Colour	yellow
Odour		Boiling point	<b>444.6</b> ℃
Melting point≽		Flash point	
Flammability		Loss on drying%(Max)	0.50
Explosive properties		Auto ignition temperature	$>$ 330 $^{\circ}$ C
Oxidizing properties		Vapour pressure	<0.01 mBar (20℃)
Density		Bulk density	400-600 kg/m³
Solubility in water	Insoluble in water	Solubility in other solvents	Partly soluble
pH value		Partition coefficient	
<b>Mooney Viscosity</b>		Relative vapour density	
Residues (150um)% Max	0.50	Explosion limits	$ \begin{array}{c} \text{Lower Explosion Limit:30 g/m}^3 \\ \text{Upper Explosion Limit:} > 2000 \text{g/m}^3 . \end{array}$
Strength of grain(N)		Copper content % Max	
Insoluble Sulfur Content% (On total S) ≥	60	Element Sulfur content%	90.0±1.0

### 10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage and handling conditions	
	(see section 7).	
Conditions to avoid	Heat, sources of heat, naked flames, sparks, direct sunlight	
Materials to avoid	Oxidants, amines	
Hazardous decomposition products	Sulfur oxides (SOx).	

### 11. TOXICOLOGICAL INFORMATION

Name	Insoluble sulfur 60 OT10 (Polymeric Sulfur)		
Acute toxicity			
Oral LD50	rat: >2000 mg/kg.		
Dermal LD50	rabbit: >2000 mg/kg.		
Inhalation LC50	rat: > 9.23  mg/l.		
Irritation			
Skin	rabbit: Non-irritating		
Eye	rabbit: Non-irritating		
Respiratory	rabbit: Non-irritating		
Sensitization	Patch testing (Human experience): Not sensitizing		
Genotoxicity	Not mutagenic (in vitro)		
Other toxicological information	Chronic toxicity: NOEL (No Observable Effect Level) (rat, oral): 500 mg/kg.		



Room 501,2-3 Unit No.8, Zhengzhou Road, Qingdao, China. TEL: 86 18661665800 Email: Dana@ylsch-rbb.com Website: www.ylsch-rbb.com

### 12. ECOLOGICAL INFORMATION

Name Insoluble sulfur 60 OT10 (Polymeric Sulfur)

**Ecotoxicity** 

Fish 96h-LC50 (Danio rerio): 866 mg/l.

Daphnia 24h-EC0 (Daphnia magna): >10.000mg/l.

Biodegradability Assimilation and consumption in proteic synthesis

#### **DISPOSAL CONSIDERATIONS** 13.

**Product** Small quantities: According to local regulations. ( most probably controlled incineration ). The incinerator must be equipped with a system for the neutralization of SOx. Large quantities: Consult YLSCH Chemical for special advice. According to local regulations. Contaminated packaging

# 14. TRANSPORT INFORMATION

Land transport (ADR/ RID)

**ADR class RID class** 

ADR/RID packing group Hazard Identification No.

Substance Identification No. **UN** number

**Proper Shipping Name** Insoluble sulfur 60 OT10 (Polymeric Sulfur)

Documentation justifying the non-dangerous goods properties is available on

Other information request.

Sea transport (IMDG-code/ IMO)

Correct technical name **IMDG Class** 

**UN Number Packaging group** 

**EMS Number** 

Documentation justifying the non-dangerous goods properties is available on Other information

request.

Air transport (ICAO-TI/ IATA-DGR)

ICAO-TI/IATA-DGR Class **UN** number

**Packing group** 

Correct technical name Insoluble sulfur 60 OT10 (Polymeric Sulfur)

Documentation justifying the non-dangerous goods properties is available on

Other information request.



Room 501,2-3 Unit No.8,Zhengzhou Road,Qingdao,China. TEL: <u>86 18661665800</u> Email: <u>Dana@ylsch-rbb.com</u> Website: <u>www.ylsch-rbb.com</u>

### **15.REGULATORY INFORMATION**

Chemical description Insoluble sulfur 60 OT10 (Polymeric Sulfur)

Labelling according to EC directives

**EC-number** See section 2

Classification based on Tests
R(isk) phrase(s) None
S(afety) phrase(s) None

### **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.