# MATERIAL SAFETY DATA SHEET STANDARD MALAYSIAN RUBBER (SMR)

# Ref:HO-SMR/27.09.07 (Replaces Ref: HO140798-271202 & Ref: HO/CV140798-271202)

1.	Company Name	: REGIONAL RUBBER TRADING 65, Chulia Street, # 44 - 01, OCBC Centre, Singapore 049513.	GCO. PTE LTD.
	Products Information	: Tel. No. 65 - 65354055 Fax No. 65 - 65337341	
	Emergency Information	: Production Factory & Code  Kota Trading, Batu Pahat (FU)  Kota Trading, Tampin (DR)  Lee Rubber, Bentung (BT)  Lee Rubber, Bukit Mertajam (CE)  Lee Rubber, Klang (GL)  Lee Rubber, Kuala Kangsar (CI)  Lee Rubber, Kuala Krai (BP1)  Lee Rubber, Labis (BQ)  Lee Rubber, Muar (EW)  Lee Rubber, Penang (EM)  Lee Rubber, Tanah Merah (BP)	Telephone Number 607 - 4319900 606 - 4381052 609 - 2233883 604 - 5213033 603 - 33424611 605 - 7761545 609 - 9606618 607 - 9256211 606 - 9556552 604 - 8286148 609 - 9556164

## **Product Name**

# : STANDARD MALAYSIAN RUBBER

· DATA (DIZZED Z)				
SMR 5	SMR 10	SMR 20		
SMR GP	SMR 10CV	SMR 20CV	OENR	

### Composition / Information of Ingredients 2.

Raw natural rubber consists essentially about 95 % of the hydrocarbon/ 'cis - polyisoprene' together with small amount of other naturally occurring substances such as lipids (1.6 %), inositols & carbohydrates (1.6 %), proteinous substances (1.4 %), ash (0.5 %), proteinous and nitrogen compound (0.3%).

For 10CV, 20CV and GP grades, they contain very small amount of added substances such as crumbing agents (castor oil) and stabilizer Hydroxyamine Neutral Sulphate (HNS), however the residues are not more than 100 ppm.

Oil extended natural rubber (OENR) grades contain certain amount of rubber processing oil.

# Ref:HO-SMR/27.09.07 (Replaces Ref: HO140798-271202 & Ref: HO/CV140798-271202)

## 3. Possible Hazard

No possible hazard to man and environment.

## 4. First Aid

General first aid treatment applies.

## 5. Fire Fighting Action / Measures

Raw natural rubber in bale form is not readily ignitable. But, once ignited, it will burn readily with much evolution of heat, smoke and fumes. A rubber fire is difficult to extinguish as heat may soften the rubber and the burning material may flow readily and thus spread the fire. An added hazard is that raw rubber is lighter than water so that the burning material will float on any pool of water. Sprinkler installations and suitable extinguishing media (water or carbon dioxide) are recommended for fire control in storage areas.

# 6. Accidental Release Measures

Natural rubber in solid state has no environmental pollution impact.

## 7. Handling and Storage

A good ventilated storage and handling in warehouse and well protected against fire.

# 8. Exposure Control and Personal Protection

The usual precautions for the handling of industrial product must be observed.

# 9. Physical and Chemical Properties

Appearance Soft Solid

Colour Light Brown to Dark Brown (Depends on

rubber grades produced by factory concerned)

Odour Mild, Characteristic

Melting Point Not Applicable

Boiling Point Not Applicable

Specific gravity (20°C) 0.92
Bulk Density 0.91 g/cc

Page 2 of 4

# Ref:HO-SMR/27.09.07 (Replaces Ref: HO140798-271202 & Ref: HO/CV140798-271202)

Not Applicable Vapour Pressure Not Applicable Viscosity (25°C) Not Applicable Solubility Not Applicable pH value Flash Point Not Applicable

 $> 400^{\circ}$ C Autoignition Temperature

Not Applicable **Explosion Limit Decomposition Point** Not Applicable **Decomposition Products** Not Applicable

Hazardous Reaction None 0.5 % Ash 1.6 % Lipids 1.4 % Proteinous Substances

#### Stability and Reactivity Data 10.

: Subject to Storage Hardening Stability

: Exposure to Heat or Fire Conditions to avoid

#### 11. **Toxicological Information**

Hazard decomposition products : Dry rubber when ignited will give off toxic fumes

and smoke.

#### 12. **Environmental Information**

Natural rubber is biodegradable and harmless to environment.

#### 13. **Waste Disposal Information**

Disposal method : Must be dumped or incinerated in accordance with

current national environmental laws or regulations.

#### 14. **Transport Information**

Not classified as hazardous under transport regulations.

# Ref:HO-SMR/27.09.07 (Replaces Ref: HO140798-271202 & Ref: HO/CV140798-271202)

# 15. Regulatory Information

Labeling according to EEC directions is not required.

# 16. Other Information

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our products must take responsibility for observing existing laws and regulations.

This Material Safety Data Sheet is made available on the basis that the users are responsible for their own interpretation of its content. No warranty representation is expressed or implied that the information is accurate, complete or representative. The producer assumes no responsibility for injury to the buyer, the buyer's employees or any third party caused by normal or abnormal use of the materials.

Page 4 of 4

# MATERIAL SAFETY DATA SHEET STANDARD INDONESIAN RUBBER (SIR)

Ref:HO-SIR/27.09.07 (Replaces Ref: HO140798-271202)

1.	Company Name	

: REGIONAL RUBBER TRADING CO. PTE LTD.

65, Chulia Street, #44 - 01,

OCBC Centre, Singapore 049513.

**Products Information** 

: Tel. No. 65 - 65354055

Fax No. 65 - 65337341

Emergency Information

PT. Hock Lie, Medan (SDH) PT. Hock Lie, Rantau Prapat (SCM) PT. Hok Tong, Banjarmasin (KAU) PT. Hok Tong, Jambi (SCL) PT. Hok Tong, Palembang (SCX) PT. Hok Tong, Pontianak (KAZ)	Telephone Number 061 - 4538044 0624 - 21250 0511 - 3353437 0741 - 31911 0711 - 313905 0561 - 883015
PT. Hok Tong, Palembang (SCX) PT. Hok Tong, Pontianak (KAZ) PT. Remco, Jambi (SBG) PT. Remco, Palembang (SDQ) PT. Sunan Rubber, Palembang (SCY)	0561 883015 0741 581980 0711 358377

Product Name

: STANDARD INDONESIAN RUBBER

SIR 10 SIR 20

# 2. Composition / Information of Ingredients

Raw natural rubber consists essentially about 95 % of the hydrocarbon/'cis-polyisoprene' together with small amount of other naturally occurring substances such as lipids (1.6 %), inositols & carbohydrates (1.6 %), proteinous substances (1.4 %), ash (0.5 %), proteinous and nitrogen compound (0.3%).

# 3. Possible Hazard

No possible hazard to man and environment

Page 1 of 4

# Ref:HO-SIR/27.09.07 (Replaces Ref: HO140798-271202)

### 4. First Aid

General first aid treatment applies.

## 5. Fire Fighting Action / Measures

Raw natural rubber in bale form is not readily ignitable. But, once ignited, it will burn readily with much evolution of heat, smoke and fumes. A rubber fire is difficult to extinguish as heat may soften the rubber and the burning material may flow readily and thus spread the fire. An added hazard is that raw rubber is lighter than water so that the burning material will float on any pool of water. Sprinkler installations and suitable extinguishing media (water or carbon dioxide) are recommended for fire control

## 6. Accidental Release Measures

Natural rubber in solid state has no environmental pollution impact.

## Handling and Storage 7.

A good ventilated storage and handling in warehouse and well protected against fire.

# 8. Exposure Control and Personal Protection

The usual precautions for the handling of industrial product must be observed.

## 9. Physical and Chemical Properties

mana one of the

Appearance Soft Solid Colour

Light Brown to Dark Brown (Depends on

rubber grades produced by factory concerned) Odour

Not Applicable

Mild, Characteristic Melting Point Not Applicable **Boiling Point** 

Not Applicable Specific gravity (20°C) 0.92 **Bulk Density** 

0.91 g/cc Vapour Pressure Not Applicable Viscosity (25°C) Not Applicable Solubility Not Applicable pH value Not Applicable Flash Point

Page 2 of 4

# Ref:HO-SIR/27.09.07 (Replaces Ref: HO140798-271202)

Autoignition Temperature

**Explosion Limit** 

> 400°C

Not Applicable

Decomposition Point **Decomposition Products** 

Not Applicable

Hazardous Reaction

Not Applicable

Ash

None

0.5 %

Lipids

1.6 %

Proteinous Substances

1.4 %

### 10. Stability and Reactivity Data

Stability

: Subject to Storage Hardening

Conditions to avoid

: Exposure to Heat or Fire

### 11. **Toxicological Information**

Hazard decomposition products

: Dry rubber when ignited will give off toxic fumes

and smoke,

### **Environmental Information** 12.

Natural rubber is biodegradable and harmless to environment.

### 13. Waste Disposal Information

Disposal method

: Must be dumped or incinerated in accordance with

current national environmental laws or regulations.

### 14. **Transport Information**

Not classified as hazardous under transport regulations.

### Regulatory Information 15.

Labeling according to EEC directions is not required.

# Ref:HO-SIR/27.09.07 (Replaces Ref: HO140798-271202)

# 16. Other Information

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our products must take responsibility for observing existing laws and regulations.

This Material Safety Data Sheet is made available on the basis that the users are responsible for their own interpretation of its content. No warranty representation is expressed or implied that the information is accurate, complete or representative. The producer assumes no responsibility for injury to the buyer, the buyer's employees or any third party caused by normal or abnormal use of the materials.

Page 4 of 4