

# HAW PAR HEALTHCARE LIMITED

## MATERIAL SAFETY DATA SHEET

TIGER BALM MUSCLE RUB

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### 1. IDENTIFICATION

Product name : Tiger Balm Muscle Rub  
Company : Haw Par Healthcare Limited  
Address : No 2 Chia Ping Road, #09-03 Haw Par Tiger Balm Building, Singapore 619968  
Contact for Information : Telephone: (65)-63037333 Telefax: (65)-62643211  
Emergency Telephone No: (65)-63037333 Attention: QA Department  
Hours (Singapore Standard Time): 8:00am - 5:00pm  
For customer information, especially if they might be calling with an emergency:  
Company : Prince of Peace Enterprises, Inc.  
Address : 3536 Arden Road Hayward, CA 94545, USA  
Toll-Free : 1(800) 732-2328 Hours: 8:00am - 5:00pm (Pacific Time)

### 2. COMPOSITION

	CAS No.
Methyl Salicylate	119-36-8
Camphor	76-22-2 / 21368-68-3
Menthol	2216-51-5
White Soft Paraffin	8009-03-8
Water	7732-18-5

### 3. HEALTH HAZARDS

Routes of Entry - Inhalation : Yes  
Routes of Entry - Skin : Yes  
Routes of Entry - Ingestion : Yes

Health Hazards (acute & chronic) :

May be irritating to skin/eyes. Harmful if swallowed. Drinking relatively small amounts (10-30ml) has caused poisoning and death similar to that seen in aspirin poisoning.

### 4. FIRST AID MEASURES

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion:

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Call a physician immediately.

Skin Contact:

Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

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**5. FIRE-FIGHTING MEASURES**

Flash Point : Not Available

Explosion: Above the flash point, explosive vapor-air mixtures may be formed.

Fire Extinguishing Media: Dry chemical, foam or carbon dioxide.

Special Information: In the event of a fire, wear full protective clothing and self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Water spray may be used to keep fire-exposed containers cool.

**6. ACCIDENTAL RELEASE MEASURES**

Ventilate area of leak or spill. Wear appropriate personal protective equipment. Sweep / scrap up and place in an appropriate container or absorb with an inert material (e.g., vermiculite, dry sand, and earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer.

**7. HANDLING AND STORAGE**

Keep in a tightly closed container, store in a cool, dry, ventilated area. Protect against physical damage. Isolate from any source of heat or ignition.

**8. EXPOSURE CONTROL AND PERSONAL PROTECTION**

Respiratory Protection: Not usually required.

Ventilation: Mechanical.

Protective Gloves: Yes

Eye Protection: Chemical goggles.

Other Protective Equipment: None.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form : Over-the-counter analgesic cream

Colour : White

Odour : Smell of methyl salicylate

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Boiling Point	:	Not Available	
Flash Point	:	Not Available	
Explosion Limit	:	Lower	Not Available
		Upper	Not Available
Specific Gravity	:	0.96 to 1.00	
Solubility in Water	:	Insoluble	
Ethanol	:	Soluble in ethanol	
Stability	:	Stable under ordinary conditions of use and storage	
Incompatibility	:	Can react with oxidizing materials	
Hazardous Polymerization	:	Will not occur	
Hazardous Decomposition Products	:	May produce acrid smoke and irritating fumes when heated to decomposition.	

#### 10. TOXICOLOGY INFORMATION

Carcinogenicity : Not listed by ACGIH, IARC, NIOSH, NTP or OSHA

**a) Exposure Limit of Camphor adopted by OSHA :**

General Industry Standards : 2 mg/m<sup>3</sup>

Construction Industry Standards : 2 mg/m<sup>3</sup> TWA

Threshold Limit Value : 2 ppm, 12 mg/m<sup>3</sup> TWA; 4 ppm STEL; Appendix A4 (Not Classifiable as a Human Carcinogen)

Recommended Exposure Limit : 2 mg/m<sup>3</sup> TWA

**b) Exposure Limit of Camphor adopted by NIOSH :**

NIOSH REL : 2 mg/m<sup>3</sup> TWA

Immediately Dangerous to Life or Health (IDLH) : 200 mg/m<sup>3</sup>

Lower Exposure Limit (LEL) : 0.6% (10% LEL, 3600 mg/m<sup>3</sup>)

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c) **Exposure Limit of Camphor adopted by ACGIH :**  
1993 - 1994 ACGIH TLV : 12 mg/m<sup>3</sup> (2ppm) TWA, 19 mg/m<sup>3</sup> (3ppm) STEL

- \* OSHA : Occupational Safety and Health Administration
- \* NIOSH: National Institute for Occupational Safety and Health
- \* ACGIH: American Conference of Governmental Industrial Hygienists
- \* PEL : Permissible Exposure Limit
- \* REL : Recommended Exposure Limit
- \* STEL : Short Term Exposure Limit
- \* TWA : Time Weighted Average
- \* TLV : Threshold Limit Value

d) **Menthol, Methyl Salicylate, White Soft Paraffin**  
No exposure limit adopted by OSHA, NIOSH and ACGIH

### 11. ECOLOGICAL INFORMATION, DISPOSAL CONSIDERATIONS, TRASPOT INFORMATION, REGULATORY INFORMATION

**Ecological Information:** When released into the soil, this product is expected to readily biodegrade, leach into groundwater or quickly evaporate. When released into water, this product is expected to readily biodegrade, have a half-life between 10 and 30 days. When released into the air, this product is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals or remove from the atmosphere to a moderate extent by wet deposition. It is expected to have a half-life between 1 and 10 days. No environmental toxicity information was found.

**Disposal Consideration:** Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. Dispose of container and unused contents in accordance with federal, state, and local regulations.

**Transport Information:** Not regulated.

### 12. OTHER INFORMATION

Not Applicable

### 13. PREPARATION DATE OF MSDS

Prepared by : Quality Control Department.

Date : 2008.07.29

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