

# HAW PAR HEALTHCARE LIMITED

## MATERIAL SAFETY DATA SHEET

TIGER BALM PATCH

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### 1. IDENTIFICATION

Product name : Tiger Balm Patch  
Company : Haw Par Healthcare Limited  
Address : No 2 Chia Ping Road, #09-00 Haw Par Tiger Balm Building, Singapore 619968  
Contact for Information : Telephone: (65)-62652777 Telefax: (65)-62654703  
Emergency Telephone No: (65)-62652777 **In US Please call (800) 732-2328**

### 2. COMPOSITION

	CAS No.
Camphor	21368-68-3
Menthol	2216-51-5
Dementholised Mint Oil	68917-18-0
Eucalyptus Oil	8000-48-4
Capsicum Extract	8023-77-6

### 3. HEALTH HAZARDS

Routes of Entry :

Inhalation : Yes

Skin : Yes

Eyes : Yes

Ingestion : Yes

Health Hazards (acute) :

Ingredients may be harmful and/or irritating if inhaled. Ingredients may cause skin irritation, and may be absorbed through the skin. All ingredients may be harmful if absorbed through the skin.

Camphor is harmful if swallowed, causing possible vertigo, mental confusion, delirium, clonic convulsions, coma, respiratory failure and even death. Menthol may cause severe eye damage. Other ingredients may also be harmful and may cause eye irritation.

### 4. FIRST AID MEASURES

If in contact with eyes, rinse with plenty of water immediately. If pain persists, summon eye specialist.

If in contact with skin excessively, wash with water thoroughly.

If inhaled, remove to fresh air. If breathing is difficult, give oxygen and if breathing stops give artificial respiration.

If ingested, rinse mouth out with water, providing person is conscious and call a physician immediately.

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#### 5. FIRE-FIGHTING MEASURES

Flash Point : 64 °C (Camphor)  
93 °C (Menthol)  
76 °C (Dementholised Mint Oil)  
44 °C (Eucalyptus Oil)

Extinguishing Media : Not applicable (water-based product)

Special Fire Fighting Procedures : Not applicable (water-based product)

Special Fire and Explosion Hazards : None

#### 6. ACCIDENTAL RELEASE MEASURES

Wear personal protective equipment appropriate for spill size, location and conditions, including self-contained breathing apparatus, rubber boots, heavy rubber gloves and disposable coveralls, if necessary. Remove ignition sources; use absorbent material as required. Sweep / scrap up and place in container. Wash the area after removing the material.

#### 7. HANDLING AND STORAGE

Keep container tightly closed. Store in a cool, dry place.

#### 8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Respiratory Protection : For normal use and handling, not required. If conditions indicate respiratory protection is needed, wear a properly fitted NIOSH approved air-purifying respirator with an organic cartridge.

Ventilation - Not normally required.

Mechanical : As needed.

Protective Gloves : Not normally required when label instructions are followed. Use chemical-resistant gloves for further processing.

Eye Protection : Normally not required when label instructions are followed. Use chemical safety goggles for further processing.

Other Protective Clothing / Equipment : As required depending on conditions.

Work / Hygienic Practices : Do not get into eyes. Avoid prolonged exposure to fumes and excessive skin contact. Wash thoroughly after handling.

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : It is a yellowish-brown cataplasm which is kneaded and spreaded on an unwoven cloth, then covered with a plastic film.

Odour : With characteristic smell of camphor and menthol

Explosion Limit :  
Lower : Not available  
Upper : Not available

Stability : Stable (all ingredients)

Incompatibility : Strong oxidizing agents (all ingredients)  
Strong bases (some ingredients)  
Strong reducing agents or chlorinated compounds (camphor)

Hazardous Polymerization : Will not occur

Hazardous Decomposition : Will only occur if heat is sufficient to drive off the water present in the product. Combustion of dried residue will then produce carbon dioxide and carbon monoxide

#### 10. TOXICOLOGY INFORMATION

LD<sub>50</sub> : Not established

Carcinogenicity : NTP - Not listed  
IARC Monographs - Not listed  
OSHA - Not listed

##### A) Camphor

###### i) Exposure limit 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;

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

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#### ii) Exposure Limit 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>)

#### iii) Exposure Limit adopted by ACGIH :

1993 – 1994 ACGIH TLV : 12 mg/m<sup>3</sup> (2ppm) TWA, 4ppm STEL

#### B) Menthol, Dementholised Mint Oil, Eucalyptus Oil and Capsicum Extract

No exposure limit adopted by OSHA, NIOSH and ACGIH

- \* 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

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

Ecological Information: Do not allow entering drinking water supplies, waste water, or soil.

Disposal Consideration: Follow all local environmental regulations. Do not place in sewers or waterways without prior authorization. Can be incinerated at licensed facility.

Transport Information: Not subjected to transport regulations.

#### 12. OTHER INFORMATION

Not Applicable