

HAW PAR HEALTHCARE LIMITED

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product Name	Tiger Balm Plaster-RD / Tiger Balm Medicated Plaster-RD / Tiger Balm Patch
Use	Transdermal Patch
Product Code	MSDS TBP-RD
Manufacturer	Haw Par Healthcare Limited No. 2 Chia Ping Road Haw Par Tiger Balm Building Singapore 619968
Telephone	065 6303 7333

2. HAZARDS IDENTIFICATION

EC Classification	Not classified as dangerous for supply / use
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3. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT(S)

Chemical Name	CAS No.	Risk Phrases	Hazard Abbreviation
Dementholised Mint Oil	68917-18-0 / 90063-97-1	R36	Xi
Camphor	76-22-2 / 21368-68-3	R36	Xn
Menthol	2216-51-5	R36	Xi
Eucalyptus Oil	84625-32-1 / 8000-48-4	R38	Xn
Capsicum Extract	404-86-4	R36/R38	Xi
Non-hazardous plaster base	Proprietary	Proprietary	Proprietary

4. FIRST AID MEASURES

Ingestion	Wash out mouth with water. If symptoms develop, obtain medical attention.
Inhalation	Remove from exposure. If symptoms develop, obtain medical attention.
Skin Contact	Unlikely to cause skin irritation. If symptoms persist, obtain medical attention.
Eye Contact	If in contact with eyes, immediately wash out with plenty of water for at least 15 minutes. If symptoms develop, obtain medical attention.

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5. FIRE-FIGHTING MEASURES

Extinguishing Media	As appropriate for surrounding fire. Water spray, foam, dry powder or CO ₂ .
Unsuitable Extinguishing Media	None
Fire Fighting Protective Equipment	A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Do not allow to enter drains, sewers or watercourses.

Personal Protection	Personnel involved in clean-up or contact is likely, should wear appropriate personal protective equipment (see section 8). Minimize exposure. Contaminated clothing should be thoroughly cleaned.
Methods for Cleaning Up	Stop the flow of material, if this is without risk. Remove ignition sources, use absorbent material as required. By sweep/ scrapping, place all contaminated materials in a container. Clean the impacted area thoroughly.

7. HANDLING AND STORAGE

Handling	When using do not eat, drink or smoke. Avoid contact with eyes.
Process Hazards	Spillages of ingredients may cause slippery road.
Storage	Keep product tightly seal in original packaging. Store in a cool and dry place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection	Not required for normal use and handling. In the unlikely event of formation of particularly high levels of vapour, a self-contained breathing apparatus may be appropriate.
Eye Protection	Not required for normal use and handling. For large quantities - Use Goggles.
Skin Protection	Not required for normal use and handling. For large quantity, wear safety boots, synthetic rubber gloves and disposable coveralls if prolonged skin contact is likely.
Exposure Limit of Camphor adopted by OSHA	General Industry Standards : 2 mg/m ³ Construction Industry Standards : 2 mg/m ³ TWA Threshold Limit Value : 2 ppm, 12 mg/m ³ TWA; 4 ppm STEL; Appendix A4 of OSHA (Not

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Classifiable as a Human Carcinogen)
Recommended Exposure Limit : 2 mg/m³ TWA

Exposure Limit of Camphor adopted by
NIOSH

NIOSH REL : 2 mg/m³ TWA
Immediately Dangerous to Life or Health (IDLH) :
200 mg/m³
Lower Exposure Limit (LEL) : 0.6% (10% LEL,
3600 mg/m³)

Exposure Limit of Camphor adopted by
ACGIH

1993 - 1994 ACGIH TLV : 12 mg/m³ (2ppm)
TWA, 19 mg/m³ (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

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	A cataplasm kneaded and spread on an unwoven cloth, then covered with a plastic film.
Colour	Yellowish-brown paste
Odour	Characteristic smell of Camphor and Menthol
Melting Point	No data available
Boiling Point	No data available
Flash Point	No data available
Explosion Limit	Lower: No data available Upper: No data available
Density	No data available
Solubility in Water	Not applicable
Solubility in Ethanol	No data 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.

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10. STABILITY AND REACTIVITY

Stable under normal conditions.

Hazardous Reactions	None known
Incompatible Materials and Conditions	None
Hazardous Decomposition Product(s)	CO ₂ , CO

11. TOXICOLOGICAL INFORMATION

Inhalation	No specific effects and / or symptoms have been reported or known. None of these effects are likely to occur in humans, provided exposure is maintained at or below the occupational exposure limit.
Ingestion	No specific effects and / or symptoms have been reported or known. None of these effects are likely to occur in humans, provided exposure is maintained at or below the occupational exposure limit.
Skin Contact	No specific effects and / or symptoms have been reported or known. None of these effects are likely to occur in humans, provided exposure is maintained at or below the occupational exposure limit.
Eye Contact	No specific effects and / or symptoms have been reported or known. None of these effects are likely to occur in humans, provided exposure is maintained at or below the occupational exposure limit.
Long Term Exposure	No specific effects and / or symptoms have been reported or known. None of these effects are likely to occur in humans, provided exposure is maintained at or below the occupational exposure limit.
Exposure Limit of Camphor adopted by OSHA	General Industry Standards : 2 mg/m ³ Construction Industry Standards : 2 mg/m ³ TWA Threshold Limit Value : 2 ppm, 12 mg/m ³ TWA; 4 ppm STEL; Appendix A4 of OSHA (Not Classifiable as a Human Carcinogen) Recommended Exposure Limit : 2 mg/m ³ TWA

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12. ECOLOGICAL INFORMATION

Avoid release to the environment.

Environmental Fate and Distribution

No environmental hazards have been reported or known.

Persistence and Degradation

Unlikely to persist.

13. DISPOSAL CONSIDERATIONS

Recommended

Disposal should be in accordance with local, state or national legislation.

14. TRANSPORT INFORMATION

Not classified as dangerous for transport.

15. REGULATORY INFORMATION

Not classified as dangerous for supply / use.

16. OTHER INFORMATION

Use

Transdermal Patch

Risk Phrases

R36: Irritating to eyes

R38: Irritating to skin

This SDS was written in accordance with Directive 2008/58/EC.

Prepared By: Quality Assurance Department

Revision: 3

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