

HAW PAR HEALTHCARE LIMITED**MATERIAL SAFETY DATA SHEET****1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING**

Product Name	Tiger Balm Active Muscle Rub
Use	Cream
Product Code	MSDS TBAMR
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
Camphor	76-22-2 / 21368-68-3	R22 / R36	Xn / Xi
Menthol	2216-51-5	R36	Xi
Methyl Salicylate	119-36-8	R22 / R36	Xn / Xi
Glycerin	56-81-5	R36	Xi
Glucate DO (Methyl Glucose Dioleate)	82933-91-3	-	-
Stabileze QM ([Poly(methyl vinyl ether/ maleic anhydride) decadiene crosspolymer])	136392-67-1	R36 / R37	Xi
Triethanolamine	102-71-6	R22 / R36 / R37	Xn / Xi
Germaben II (Diazolidinyl Urea 30%, Methyl Paraben 11%, Propyl Paraben 3%, Propylene Glycol 56%)	78491-02-8, 99-76-3, 94-13-3, 57-55-6	R36	Xi

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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 substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes. If symptoms develop, obtain medical attention.

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. Spillages may cause slippery road.

Personal Protection	If significant contact is likely then; apron or other light protective clothing, boots and plastic or rubber gloves. Contaminated clothing should be thoroughly cleaned.
Methods for Cleaning Up	Wear personal protective equipment appropriate for spill size, location and conditions. 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

Handling	When using, do not eat, drink or smoke. Avoid contact with eyes.
Process Hazards	Spillages may cause slippery road.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respirators Not normally required. In the unlikely event of formation of particularly high levels of vapour a self contained breathing apparatus may be appropriate.

Eye Protection Not normally required. For large quantities - Use Goggles.

Gloves Wear suitable gloves if prolonged skin contact is likely. Plastic or synthetic rubber gloves.

Exposure Limit of Camphor adopted by OSHA General Industry Standards : 2 mg/m³
Construction Industry Standards : 2 mg/m³ TWA
Threshold Limit Value : 2 ppm, 12 mg/m³ TWA; 4 ppm STEL; Appendix A4 (Not 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 Over-the-counter analgesic cream

Colour White cream

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Odour	Smell of Methyl Salicylate
Melting Point	Not available
Boiling Point	Not available
Flash Point	Not available
Explosion Limit	Lower: Not available Upper: Not available
Solubility in Water	Practically insoluble
Ethanol	Soluble in ethanol
Stability	Stable
Incompatibility	Potassium permanganate; strong oxidizers
Hazardous Polymerization	Will not occur
Hazardous Decomposition	None identified

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

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

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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.

Menthol Toxicity to Animals

Acute Oral Toxicity (LD50): 800mg/kg [Cat]
Acute Dermal Toxicity (LD50): 5001mg/kg [Rabbit]

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.

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16. OTHER INFORMATION

Use Cream

Risk Phrases

R22: Harmful if swallowed.

R36/37: Irritating to eyes and respiratory system.

Hazard Abbreviation

Xn: Harmful

Xi: Irritant

Prepared By: Quality Control Department Revision: 1 Date: 2013.07.12