



Safety Data Sheet

Product Name **HOVEX CAMPHOR**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name PASCOE'S PTY LTD
Address 14 Casino Street, Welshpool, WA, AUSTRALIA, 6106
Telephone (08) 9353 3900
Fax (08) 9353 1902
Emergency (08) 9353 3900
Email info@pascoes.com.au, pascoes@pascoes.com.au
Web Site http://www.pascoes.com.au/
Synonym(s) (IR)-(-)CAMPHOR [CAS RN: 464-49-3] • (IS)-(-)CAMPHOR [CAS RN: 464-48-2] • 2-BORNANONE • 2-CAMPHANONE • 2-OXOBORNANE • CAMPHOR, NATURAL OR SYNTHETIC • DL-CAMPHOR, SYNTHETIC, GPR • DL-CAMPHOR, SYNTHETIC, UNILAB • GUM CAMPHOR • PASCOE'S CAMPHOR
Use(s) COSMETIC INDUSTRY • MOTH REPELLENT • PHARMACEUTICAL INDUSTRY • PLASTIC MANUFACTURE • PLASTICISER • PRESERVATIVE
SDS Date 27 Jul 2010

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

RISK PHRASES

R22 Harmful if swallowed.
R36/37/38 Irritating to eyes, respiratory system and skin.

SAFETY PHRASES

S16 Keep away from sources of ignition - No smoking.
S22 Do not breathe dust.
S24/25 Avoid contact with skin and eyes.
S36 Wear suitable protective clothing.

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

UN No. 2717 **DG Class** 4.1 **Subsidiary Risk(s)** None Allocated
Packing Group III **Hazchem Code** 1Z

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS No.	Content
CAMPHOR	C10-H10-O	76-22-2	>98%

4. FIRST AID MEASURES

Eye	If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.
Inhalation	If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.
Ingestion	For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). Urgent hospital treatment is likely to be needed. If swallowed, do not induce vomiting.
Advice to Doctor	Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammability	Combustible. May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition. Eliminate all ignition sources including cigarettes, open flames, spark producing switches/tools, heaters, naked lights, pilot lights, mobile phones etc. when handling.
Fire and Explosion	Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire.
Extinguishing	Dry agent, carbon dioxide or water fog. Prevent contamination of drains or waterways.
Hazchem Code	1Z

6. ACCIDENTAL RELEASE MEASURES

Spillage	Contact emergency services where appropriate. Use personal protective equipment. Clear area of all unprotected personnel. Contain spillage, then collect and place in suitable containers for disposal. Avoid generating dust.
-----------------	--

7. STORAGE AND HANDLING

Storage	Store in a cool, dry, well ventilated area, removed from oxidising agents, acids, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills. Large storage areas should have appropriate ventilation systems.
Handling	Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure Stds

Ingredient	Reference	TWA		STEL	
Camphor, synthetic	SWA (AUS)	2 ppm	12 mg/m ³	3 ppm	19 mg/m ³

Biological Limits No biological limit allocated.

Engineering Controls Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical explosion proof extraction ventilation is recommended. Flammable/explosive vapours may accumulate in poorly ventilated areas. Vapours are heavier than air and may travel some distance to an ignition source and flash back. Maintain vapour levels below the recommended exposure standard.

PPE Wear dust-proof goggles, PVC or rubber gloves and coveralls. At high dust levels, wear: a Powered Air Purifying Respirator (PAPR) with Class P3 (Particulate) filter or a Full-face Class P3 (Particulate) respirator. Where an inhalation risk exists, wear: a Class P1 (Particulate) respirator.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	WHITE CRYSTALS	Solubility (water)	INSOLUBLE
-------------------	----------------	---------------------------	-----------

Product Name **HOVEX CAMPHOR**

Odour	CHARACTERISTIC ODOUR	Specific Gravity	0.99
pH	NOT RELEVANT	% Volatiles	VOLATILE @ 100°C
Vapour Pressure	0.024 kPa @ 20°C	Flammability	COMBUSTIBLE
Vapour Density	NOT AVAILABLE	Flash Point	65°C
Boiling Point	204°C	Upper Explosion Limit	3.5 %
Melting Point	174°C to 180°C	Lower Explosion Limit	0.6 %
Evaporation Rate	NOT AVAILABLE		
Autoignition Temperature	486°C		

10. STABILITY AND REACTIVITY

Material to Avoid	Incompatible with oxidising agents (eg. hypochlorites), acids (eg. nitric acid), heat and ignition sources. Also incompatible with potassium permanganate, chlorates, chromic anhydride, naphthalene, dichlorobenzene and organic solvents.
Hazardous Decomposition Products	May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary	Moderate toxicity. This product has the potential to cause adverse health effects with over exposure. Use safe work practices to avoid eye or skin contact and inhalation.
Eye	Low to moderate irritant. Contact may result in irritation, lacrimation, pain and redness.
Inhalation	Low irritant. Over exposure may result in irritation of the nose and throat, with coughing.
Skin	Irritant. Contact may result in irritation, redness, pain and rash.
Ingestion	Moderate toxicity. Ingestion may result in gastrointestinal irritation, nausea, vomiting, abdominal pain and diarrhoea.
Toxicity Data	CAMPHOR (76-22-2) LCLo (Inhalation): 400 mg/m ³ /3 hour (mouse) LD50 (Ingestion): 1310 mg/kg (mouse) LD50 (Intraperitoneal): 3 g/kg (mouse) LD50 (Subcutaneous): 70 mg/kg (rat) LDLo (Ingestion): 70 mg/kg (infant) LDLo (Intraperitoneal): 900 mg/kg (rat) LDLo (Subcutaneous): 200 mg/kg (mouse) TCLo (Inhalation): 33 mg/kg/3 hour/7 weeks-intermittent (rabbit) TDLo (Ingestion): 51 mg/kg (child)

12. ECOLOGICAL INFORMATION

Environment	Limited ecotoxicity data was available for this product at the time this report was prepared. Ensure appropriate measures are taken to prevent this product from entering the environment.
--------------------	--

13. DISPOSAL CONSIDERATIONS

Waste Disposal	Dispose of by controlled burning in incinerator equipped with afterburner and scrubber, by licensed or competent personnel. Contact the manufacturer for additional information.
Legislation	Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION



Product Name **HOVEX CAMPHOR**

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

Shipping Name	CAMPHOR, synthetic			Subsidiary Risk(s)	None Allocated
UN No.	2717	DG Class	4.1	GTEPG	4A1
Packing Group	III	Hazchem Code	1Z		

IATA

Shipping Name	CAMPHOR, synthetic			Subsidiary Risk(s)	None Allocated
UN No.	2717	DG Class	4.1		
Packing Group	III				

IMDG

Shipping Name	CAMPHOR, synthetic			Subsidiary Risk(s)	None Allocated
UN No.	2717	DG Class	4.1		
Packing Group	III				

15. REGULATORY INFORMATION

Poison Schedule Classified as a Schedule 6 (S6) Poison using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

AICS All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Additional Information RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

ABBREVIATIONS:

- ACGIH - American Conference of Industrial Hygienists.
- ADG - Australian Dangerous Goods.
- BEI - Biological Exposure Indice(s).
- CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.
- CNS - Central Nervous System.
- EC No - European Community Number.
- HSNO - Hazardous Substances and New Organisms.
- IARC - International Agency for Research on Cancer.
- mg/m3 - Milligrams per Cubic Metre.
- NOS - Not Otherwise Specified.
- pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
- ppm - Parts Per Million.
- RTECS - Registry of Toxic Effects of Chemical Substances.
- STEL - Short Term Exposure Limit.
- SWA - Safe Work Australia.
- TWA - Time Weighted Average.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Chem Alert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this Chem Alert report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

Report Status This document has been compiled by RMT on behalf of the manufacturer of the product and serves as the manufacturer's Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of

Product Name **HOVEX CAMPHOR**

the product should be obtained directly from the manufacturer.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

Prepared By Risk Management Technologies
5 Ventnor Ave, West Perth
Western Australia 6005
Phone: +61 8 9322 1711
Fax: +61 8 9322 1794
Email: info@rmt.com.au
Web: www.rmt.com.au

SDS Date 27 Jul 2010

End of Report