

B.L. CAMTEK TECHNOLOGY PTY LTD

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MATERIAL SAFETY DATA SHEET

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Product Name : **ACTIVATED CARBON IMPREGNATED**

Date of Issue : December 2000

STATEMENT OF HAZARDOUS NATURE

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA

COMPANY DETAILS

Company :	B.L. Camtek Technology Pty Ltd	Telephone No. :	(02) 4628 2989
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I. IDENTIFICATION

Product Name	:	ACTIVATED CARBON IMPREGNATED		
Other Names	:	ACTIVATED CARBON IMPREGNATED WITH SODIUM HYDROXIDE		
UN Number	:	NONE ALLOCATED		
Dangerous Goods	CLASS :	NONE ALLOCATED	POISON SCHEDULE :	NOT SCHEDULED
Sub Risk	CLASS :	NONE ALLOCATED	PRODUCT TYPE :	GHS ACTIVATED CARBON
PACKAGING:	GROUP :	NONE ALLOCATED	HAZCHEM CODE :	NONE ALLOCATED

PHYSICAL APPEARANCE AND PROPERTIES

APPEARANCE	:	BLACK PARTICULATE SOLID	BOILING POINT	:	NOT AVAILABLE
ODOUR	:	NONE	VAPOUR PRESSURE	:	NOT AVAILABLE
MELTING POINT	:	NOT AVAILABLE	WATER SOLUBILITY	:	10%
DENSITY	:	0.6 TO 0.7 L/M ³	FLASHPOINT	:	NOT AVAILABLE
% VOLATILE BY VOLUME	:	9.75% AS WATER VAPOUR	FLAMMABILITY LIMITS:	:	>350°C
			VAPOUR DENSITY / 25°C:	:	NOT AVAILABLE
			PH DENSITY	:	10

Ingredients

<u>Chemical Entity</u>	<u>CAS No.</u>	<u>Proportion</u>
CARBON	7440.44.0	73 – 78%
SODIUM HYDROXIDE	1310.73.2	7 – 12%

II. HEALTH HAZARD INFORMATION

Health Effects

Acute Effects

Swallowed : The product is non toxic through ingestion (see Toxicity Data)

Eye : May cause eye irritation

Skin : Refer Toxicity Data

Inhalation : Refer Toxicity Data

Chronic Effects : The effects of long term low level exposure to this product have not been determined. Safe handling of this material on a long term basis should emphasise the avoidance of all effects from repetitive acute exposures.

First Aid

Swallowed : Not applicable

Eye : Flush with plenty of water for at least 15 minutes. Obtain prompt medical attention if irritation persists.

Skin : Wash with soap and water

Inhaled : Not applicable

First Aid Facilities : Eye wash facilities

Advice to Doctors : Refer to chronic effects

III. PRECAUTIONS FOR USE

Exposure Limits Name	STEL (mgm3)	STEL (ppm)	TWA (mgm3)	TWA (ppm)
Sodium Hydroxide			2	

Other Exposure:

Info: N/A

Eng. Controls LOCAL EXHAUST: Recommended
 MECHANICAL EXHAUST: Recommended

Other

Information

CAUTION!! Wet activated carbon removes oxygen from air causing a severe hazard to workers inside carbon vessels and enclosed or confined spaces. Before entering such an area, sampling and work procedures for low oxygen levels should be taken to ensure ample oxygen availability, observing all local, state, and federal regulations.
 The product is non-hazardous according to the definitions for ‘health hazard’ and ‘physical hazard’ provided in the OSHA Hazard Communication law (29 CFR part 1910).

IV. PERSONAL PROTECTION

Protective Equipment: PROTECTIVE GLOVES: Rubber gloves recommended.
 EYE PROTECTION: Safety glasses or goggles recommended
 OTHER PROTECTIVE CLOTHING: Not required

V. SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT : **CAUTION!!** Wet activated carbon removes oxygen from air causing a severe hazard to workers inside carbon vessels and enclosed or confined spaces. Before entering such an area, sampling and work procedures for low oxygen levels should be taken to ensure ample oxygen availability, conserving all local, state, and federal regulations.

CAUTION!! Do not leave large vessels (> 3m dia) of IVP in a static state for long periods of time unless the vessel is sealed to prevent entrance of large volumes of air and/or organic vapours.

OTHER PRECAUTIONS: Wash thoroughly after handling. Exercise caution in the storage and handling of all chemical substances. Fire generated by attrition during handling of the IVP product generally contain a higher impregnate than the actual product.

SPILLS AND DISPOSAL: **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Sweep up unused carbon and discard in refuse container or repackage.

WASTE DISPOSAL METHOD: Dispose of unused carbon in refuse container. Dispose of in accordance with local, state, and federal regulations.

FIRE/EXPLOSION HAZARD: **EXTINGUISHING MEDIA:** If involved in fire, flood with plenty of water.

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE AND EXPLOSION HAZARDS: IVP product in large vessels (> 3m dia) under static conditions is susceptible to exothermic reaction on contact with oxidisable material. Flooding the vessel with water will extinguish any hot zones. Copious volumes of steam will be generated in the process of extinguishing hot zones. The carbon itself will not exhibit flaming although any combustible material in contact with it will.

HAZARDOUS REACTION:

STABILITY: Stable

CONDITIONS TO AVOID: Do not leave large beds (>3m dia) in static state for long periods of time unless vessel sealed to prevent entrance of large volumes of air, etc.

INCOMPATIBILITY (MATERIALS TO AVOID): Avoid contact with vapour streams that have high concentrations of combustible hydrocarbons.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide may be generated in the event of combustion.

HAZCHEM CODE: None allocated

VI. OTHER INFORMATION

TOXICOLOGY

The acute oral LD50 (rat) is > 10g/kg*.
The acute inhalation LC50 (rat) is > 194 mg/l (nominal concentration) for IVP product.

DERMAL EXPOSURE:

- a) Toxic: Non-toxic for IVP Product.
- b) Irritation: the product is not a primary skin irritant. The primary skin irritation index (rabbit) is 0.
- c) Sensitisation: None.

* No animal mortalities during the course of 14 day study with IVP activated carbon.

This MSDS is prepared in accordance with the Worksafe Australia Document “National Code of Practice for the Preparation of Material Safety Data Sheets” (NOHSC: 2011[1994]).

VII CONTACT POINT

In event of emergency call Technical Manager : office hours 02 4625 9957
: after hours 0438 285 884