

# MATERIAL HEALTH AND SAFETY DATA SHEET

## I.

Product	Nickel Cadmium batteries with pocket plate	Chemical Formula	N/A
Other Names	VARTA T, TP and TSP range		
Manufacturer	ENERSYS CANADA INC. (Formerly VHB Industrial Batteries Ltd.) 392 Deerhurst Drive Brampton, Ontario L6T 5H9, Canada		
Emergency Phone No.	(613) 996-6666 - Canutec Co. (24-hrs)		

## II.

### COMPONENTS

Chemical Ingredients	TLV	%
Nickel (Ni)	N/A	9-10%
Cadmium (Cd)	N/A	8-10%
Iron (Fe)	N/A	20-25%
Stainless Steel (Fe, Ni, Cr)	N/A	7-15%
Potassium Hydroxide Solution (KOH)	N/A	30-40%
Specific gravity: 1.19 kg/l		
(Include any chemicals listed in the ACGIH TLV Booklet or Ontario Government Regulation)		

## III.

### HEALTH HAZARD INFORMATION

Route	Effects (Include both immediate and long-term effects)
INHALATION	Fumes irritate nose and throat but fumes generated only if batteries are on charge (not a transportation condition).
EYE CONTACT	Severe irritation. Possible corneal damage. Flush with water for 15 minutes.
SKIN CONTACT	Severe irritation and inflammation. Flush with water. Obtain medical attention.
SKIN ABSORPTION	Severe irritation and inflammation. Flush with water. Obtain medical attention.
INGESTION	Severe inflammation or internal tissues. Contact physician immediately.

## IV.

### HANDLING PRECAUTIONS

Rubber boots and rubber aprons, chemical goggles or full-face shield should be worn.  (Include recommendations for personal protective equipment and controls)
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V.

**FIRE AND EXPLOSION DATA**

Boiling Point	N/A	Flashpoint	N/A	Flammable Limits	N/A	LEL UEL	N/A
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## REACTIVITY

STABLE	<input checked="" type="checkbox"/>	UNSTABLE	HAZARDOUS DECOMPOSITION PRODUCTS	INCOMPATIBILITY
		(List of conditions to avoid) Avoid shorting batteries such as contacting across terminals with any metal object	(List)  N/A	(List materials to avoid)  N/A

## EMERGENCY AND FIRE FIGHTING PROCEDURE

Use full body protective clothing and full facepiece.  
 Self-contained breathing apparatus in a positive pressure mode.  
 Molted and overheated Cd and Ni produce fume, vapor or dust.  
 Under these conditions, Ni or Cd is suspected carcinogen.  
 KOH is highly caustic. Contact with eye and skin must be avoid.  
 No heating or smoking during handling or inspection. Do not cause sparks.

VI.

**SPILLAGE CLEAN-UP AND WASTE DISPOSAL PROCEDURE**

Clean up personnel should wear safety goggles, rubber gloves, rubber boots and Rubber apron. Broken product should be packed in plastic bags and taken to battery repair depot or scrap dealer for eventual transfer to a smelter. Use weak acids, ex: Boric acid, acetic acid.

VII.

**FIRST AID**

INHALATION	Not applicable to batteries in transit but if on charge in confined poorly ventilated area and fumes irritating remove person to fresh air.
EYES	Hold eyelids open and flush with clean water for 15 minutes. Get medical help promptly.
SKIN	Remove contaminated clothing and flush skin with water for 15 minutes. Don't attempt to neutralize with alkaline.
INGESTION	Get medical help. Give patient copious amounts of water. Don't induce vomiting.

VIII.

**STORAGE INSTRUCTIONS**

N/A

IX.

**ADDITIONAL INFORMATION**

Consult waste disposal business for proper disposition.  
 Do not empty in common sewer systems.