

## MATERIAL SAFETY DATA SHEET

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Number: E-0010(E)  
Date prepared: July 1, 2001  
Date revised: May 30, 2006

### 1. Chemical Product and Company Identification

**Product code:** -

**Product Name:** VPS Universal Adhesive

**Manufacturer / Supplier:**

**GC Corporation, 76-1 Hasunuma-Cho, Itabashi-Ku, Tokyo, Japan**

**Postal code 174-8585, Phone 81-3-3965-1388**

**Australian supplier:**  
**Henry Shein Halas Dental Co., Ltd.,**  
**Sydney – Head Office**  
**44 O'Dea Ave, Waterloo, NSW 2017**  
**Emergency Phone (02) 9697-6288**  
**Fax (02) 9697 6250**

### 2. Composition / Information on Ingredients

(% chemical components by WT)

Toluene (CAS# 108-88-3)	40%
Petroleum benzine (CAS# 8030-30-6)	30
Silicon modified acrylic resin (CAS# not listed)	30

### 3. Hazardous Identification

**Emergency Overview:**  
Harmful if swallowed, inhaled or absorbed through skin. Flammable liquid. May cause skin, eye and digestive or respiratory tract irritation. May cause central nervous system depression.

**Eye:** Causes eye irritation.

**Skin:** May cause skin irritation

**Ingestion:** May causes irritation to the digestive tract. May cause liver and kidney damage. Ingestion of large amounts may cause central nervous depression.

**Inhalation:** Inhalation may cause respiratory tract irritation. May be harmful if inhaled. Inhalation of high concentrations may cause narcotic effects.

### 4. First Aid Measures

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

**Skin:** Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing and clean shoes before reuse. Get medial attention if irritation persists.

**Ingestion:** If victim is conscious and alert, give 2-4 cupfuls of water or milk. Never give anything by mouth to an unconscious person. Get medical attention.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medial attention.

## 5. Fire Fighting Measures

**Flammable Properties:** Flammable liquid and vapors may form an explosive mixture with air. Dangerous fire hazard when exposed to heat or flame.

**Flash Point:** -38°C CC

**Flammable Limits:**

**Lower flammable limit:** lel: 1.4%

**Upper flammable limit:** uel: 7.5%

**Auto-Ignition temperature:**

**Hazardous Combustion Products:** not available

**Extinguishing Media:** Dry chemical, chemical foam. or carbon dioxide. Water spray may be used to keep fire exposed containers cool.

**Fire Fighting Instructions:** In the event of a fire, wear full protective clothing and approved self-contained breathing apparatus with full face-piece operated in the pressure demand or other positive pressure mode.

## 6. Accidental Release Measures

Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the protective equipment section. Remove all sources of ignition. Absorb spill using an absorbent, non-combustible material such as earth, sand. Provide ventilation

## 7. Handling and Storage

**Handling:** Protect against physical damage.

**Storage:** Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute.

## 8. Exposure Control / Personal protection

**Toluene:**

- **OSHA PEL:** 200 ppm (TWA), 300 ppm (acceptable ceiling conc.), 500 ppm (maximum conc.)
- **ACGIH TLV:** 50 ppm (TWA) skin, A4 – not classifiable as a human carcinogen

**Respiratory Protection:** If the exposure limit is exceeded, a half-face organic vapor respirator is recommended.

**Skin Protection:** Wear impervious protective gloves to prevent skin contact.

**Eye Protection:** Maintain eye wash fountain and quick-drench facilities in work area.

**Exposure Guideline:** Not known

**Engineering Controls:** Not known

## 9. Physical and Chemical Properties

**Appearance:** Blue and viscous liquid

**Odor:** Benzene - like

**Boiling Point:** not available

**Vapor Pressure (mm Hg):** not available

**Vapor Density (Air=1):** not available

**Solubility in Water:** Slightly soluble

**Specific Gravity:** not available

**Melting Point:** not available

**pH:** not available

**Volatile:** not available

**Evaporation rate: (BuAc=1):** not available

## 10. Stability and Reactivity

**Stability:** Stable under ordinary conditions of use and storage. Heat will contribute to instability.

**Incompatibility:** Heat, flame, and other sources of ignition. Contact with nitrates, strong oxidizers, strong alkalis or acids.

**Hazardous Decomposition Products:** Carbon dioxide and carbon monoxide may form when heated to decomposition.

### 11. Toxicological Information

#### Toxicological data:

##### Toluene:

Inhalation rat LC50: 49gm/m<sup>3</sup>/4H

Oral rat LD50: 636/kg

Skin rabbit LD50: 14100 uL/kg

Carcinogen – Not listed by ACGIH, IARC, NTP or CA Prop 65

### 12. Ecological Information

This material is not expected to significantly bio accumulate. This material is expected to be toxic to aquatic life.

### 13. Disposal Consideration

Chemical waste generators must determine whether a discarded chemical classified as a hazardous waste according to state and/or regional regulations.

It is recommended to consult state and/or regional regulations regarding proper disposal.

### 14. Transportation Information

#### IMO Regulations (IMDG):

Class: 3

UN Number: UN1993

Packing Group: II

Marine Pollutant: No

Proper Shipping Name: Flammable liquid, n.o.s. (Toluene solution)

#### ICAO and IATA Regulations:

Class: 3

UN Number: UN1993

Packing Group: II

Proper Shipping Name: Flammable liquid, n.o.s. (Toluene solution)

### 15. Regulatory Information

Chemical inventory status

Ingredient

**Toluene (108-88-3)**

TSCA	EC	Japan	Australia
yes	yes	yes	Yes

### 16. Other Information

Not Information available

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use.