



## Material Safety Data Sheet

**Product code:** ETHUSAHVDHVDPPAPPOC

**Issuing date:** 01-14-2010

**Revision date:** \*REQUIRED BUT MISSING\*

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Supplier:**

Ethicon, Inc.  
P.O. Box 151  
Route 22  
Somerville, NJ 08876

**Customer service telephone:** 1-877-384-4266 (877-ETHICON)  
**Emergency telephone number:** ChemTrec 24 Hour Emergency Response  
USA: (800) 424-9300  
Outside USA: +1 (703) 527-3887

**Manufacturer:** Ethicon, Inc.  
5250 Greens Dairy Road  
Raleigh, NC 27616  
919-876-7800

**Synonyms:** 2-Octylcyanoacrylate  
Dermabond  
AHV6  
AHV12  
DHV12  
AHVM12  
DPP6  
DPPXL6  
APP6  
APPXL6  
OC005\PM60574  
DNX6  
DNX12  
ANX6  
ANX12  
OC017

**Product name:** High Viscosity Dermabond  
**Product code:** ETHUSAHVDHVDPPAPPOC  
**Identified use:** Topical skin adhesive

### 2. HAZARDS IDENTIFICATION

**Emergency overview:** Flammable. Danger. Cyanoacrylate. Bonds skin and eyes in seconds. Keep out of the reach of children.

**Properties affecting health:** May cause respiratory tract irritation.  
Bonds skin and eyes in seconds.  
Vapors may cause drowsiness and dizziness.

This material is not a controlled product under WHMIS.

**Principle routes of exposure:**

**Eye Contact:** Non-irritating to the eye.  
**Skin contact:** Bonds skin on contact.  
**Ingestion:** No effects expected under normal handling conditions; i.e., dispensing and administering liquid.  
**Inhalation:** May cause irritation of respiratory tract. May affect the central nervous system. Vapors may cause drowsiness and dizziness.

**Physico-chemical properties:** No hazards resulting from material as supplied. Heated fumes may be hazardous.

**Hazard information:**

**Target Organ(s)** Central nervous system.  
**Reproductive effects:** Unknown on product.  
**Mutagenic effects:** Not mutagenic.  
**Sensitization:** Non-sensitizing.

**Signs and symptoms:** Irritation of mucous membranes. Dizziness. Drowsiness.

**Medical conditions aggravated by exposure:** Respiratory disorder.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Synonyms	Weight %
Hydrocarbon Solvent	-		5 - 20

### 4. FIRST AID MEASURES

**Eye contact:** Immediate medical attention is required. Will polymerize on contact with the eyes. Rinse immediately with plenty of water and seek medical advice. If residual adhesive remains, apply topical ophthalmic ointment to help loosen the bond and contact an ophthalmologist.

**Skin contact:** If unintended bonding of intact skin occurs, peel off the adhesive but do not pull the skin apart. Petroleum jelly or acetone may help loosen the bond. Other agents such as water, saline, betadine, or soap are not expected to immediately loosen the bond. Remove contaminated clothing and wash before re-use. Get medical attention if irritation develops or persists.

**Ingestion:** Ingestion of the liquid form is highly unlikely, it is extremely difficult to swallow due to polymerization of the liquid material on contact with oral tissues. If the polymerized material is swallowed, no adverse effects are expected. Contact physician if gastric distress is noted.

**Inhalation:** Move to fresh air in case of accidental inhalation of vapors or decomposition products. If symptoms develop, obtain medical attention.

### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:** Use any extinguishing media which is suitable for the surrounding fire.

**Extinguishing media which must not be used for safety reasons:** None.

**Special protective equipment for firefighters:** Wear a self-contained breathing apparatus and full protective gear.

**Specific methods:** Flash back possible over considerable distance.

**Hazardous combustion products:** Emits toxic fumes under combustion. Will polymerize upon contact with water.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Evacuate personnel to safe areas. Ensure adequate ventilation. Refer to Section 8 (Exposure Controls/Personal Protection) for minimum personal protective equipment.

**Environmental precautions:** Prevent product from entering drains. Do not wash down sewers or waterways.

**Methods for cleaning up:** Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Dispose of in accordance with all applicable federal, state, and local regulations.

## 7. HANDLING AND STORAGE

### Handling:

**Technical measures/precautions:** Ensure adequate ventilation. Flash back possible over considerable distance.  
**Safe handling advice:** Avoid contact with skin and eyes. Avoid breathing vapors or mist.

### Storage:

**Technical measures/storage conditions:** Avoid prolonged exposure to temperatures above 25C. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container.  
**Incompatible products:** Oxidizing agent, Bases.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering controls:** Ensure adequate ventilation.

### Personal protective equipment

**Eye protection:** Eye and face protection recommended when manufacturing product. Use safety goggles where splashing of liquid is possible.  
**Hand protection:** Wear impervious gloves. Do not wear cotton gloves.  
**Skin and body protection:** Skin protection recommended when manufacturing product. Wear suitable protective clothing. Lab coats are recommended to be worn to minimize the potential for skin exposure.  
**Respiratory protection:** Wear appropriate respiratory protection during production of product.  
**Other/general protection:** None required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General Information

**Physical state:** Liquid  
**Color:** Purple  
**Odor:** Pungent

### Important Health Safety and Environmental Information

**Flash point:** <=131 °F <=55 °C  
**pH:** Not applicable  
**Boiling point/range:** 236 - 374 °F 113 - 190 °C  
**Water solubility:** Insoluble

**Solubility in other solvents:** Acetone

### Other information

**Explosivity:** None.

## 10. STABILITY AND REACTIVITY

**Chemical stability:** Stable under recommended storage conditions.

**Materials to avoid:** Water  
Amines.  
Ammonia.  
Strong bases.  
**Conditions to avoid:** Exposure to sunlight.  
Avoid high temperatures.  
Avoid moisture.

To avoid thermal decomposition, do not overheat.  
Thermal decomposition can lead to release of irritating gases and vapors.  
Emits toxic fumes under combustion. Will polymerize upon contact with water.  
**Hazardous polymerization:** Will polymerize on contact with skin and eyes, and could bond with other surfaces. The reaction is exothermic, however no hazardous release of energy will occur.

**Possibility of hazardous reactions:** No information available.

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**

<b>Eye contact</b>	Not irritating to the eyes.	<b>Method</b>	Based on product data.
<b>Skin contact</b>	Non-irritating to the skin. Bonds skin on contact.	<b>Method</b>	Based on product data.
<b>Ingestion</b>	Not expected to be harmful if swallowed (LD50 > 2000 mg/kg).		
<b>Inhalation</b>	May cause irritation of respiratory tract. Vapors may cause drowsiness and dizziness.		

**Sub-Chronic/Chronic Toxicity**

No repeat dose data available.

**Specific effects**

<b>Target Organ(s)</b>	Central nervous system.
<b>Reproductive effects</b>	Not available.
<b>Developmental effects</b>	Not available.
<b>Carcinogenic effects</b>	Not available.
<b>Genotoxic effects</b>	Not available.

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

<b>Ecotoxicity effects:</b>	This product has no known eco-toxicological effects.
<b>Aquatic toxicity effects:</b>	This product has no known aquatic toxicological effects.

<b>Mobility:</b>	None.
<b>Persistence / degradability:</b>	Inherently biodegradable.
<b>Bioaccumulation:</b>	Inherently biodegradable.
<b>Degradation:</b>	Inherently biodegradable.

**13. DISPOSAL CONSIDERATIONS**

<b>Waste from residues / unused products:</b>	Polymerized adhesive is non-toxic and may be disposed in non-hazardous solid waste. Any liquid adhesive may be polymerized with water and picked up with an inert absorbant material.
<b>Contaminated packaging:</b>	Waste disposal must be in accordance with appropriate US, Federal, State and International regulations.

**14. TRANSPORT INFORMATION**

The transportation information below refers to in-process materials. Finished goods are shipped ORM-D, ID 8000. Please refer to trained shipping personnel for proper classification and shipment.

**DOT**

<b>DOT UN-No:</b>	UN 1993
<b>DOT shipping name:</b>	Flammable Liquid, n.o.s. (contains hydrocarbon solvent)
<b>Hazard class:</b>	3
<b>Packing group:</b>	PG II

**IATA/ICAO**

<b>ID/UN No.:</b>	UN 1993
<b>Proper shipping name</b>	Flammable Liquid, n.o.s. (contains hydrocarbon solvent)
<b>Hazard class:</b>	3
<b>Packing group:</b>	PG II

IATA - label: 3 (Flammable Liquid)  
 ERG # 3L

## 15. REGULATORY INFORMATION

### SARA (311, 312) hazard class

Immediate health: None.  
 Delayed health: None.  
 Fire: Yes  
 Sudden Release of Pressure Hazard: None.  
 Reactivity: None.

### State Regulations

Components	CAS Number	NJRTK	PARTK	MARTK	RIRTK
Hydrocarbon Solvent (5 - 20%)			Listed	Listed	

### International Inventories

Components	TSCA	DSL	NDSL
Hydrocarbon Solvent (5 - 20%)	X	X	Not Listed

### WHMIS:

WHMIS trade secret: None.  
 WHMIS hazard class: B2 Flammable Liquids



### Notes:

1. SARA = Superfund Amendments and the Reauthorization Act.
2. CERCLA = Comprehensive Environmental Response, Compensations and Liability Act.
3. FIFRA = Federal Insecticide, Fungicide and Rodenticide Act.
4. TSCA = Toxic Substance Control Act.
5. WHMIS = Canadian Workplace Hazardous Materials Information System.
6. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

### European Union Labeling:

The preparation is classified as dangerous in accordance with Directive 1999/45/EC

Indication of danger: Flammable.

F



### R -phrase(s)

R10 - Flammable.  
 R67 - Vapors may cause drowsiness and dizziness.  
 R65 - Harmful: may cause lung damage if swallowed.  
 R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### S -phrase(s)

S 7 - Keep container tightly closed.  
 S 9 - Keep container in a well-ventilated place.  
 S16 - Keep away from sources of ignition - No smoking.  
 S33 - Take precautionary measures against static discharges.

S23 - Do not breathe spray, vapor.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

## 16. OTHER INFORMATION

**This data sheet contains changes from the previous version in section(s):**

None.

**MSDS format:**

- North American Format - U.S. and Canada

This Material Safety Data Sheet was prepared in accordance with ANSI Z400.1-2004.

**Disclaimer:**

The information and recommendations contained herein are based upon tests believed to be reliable. However, Johnson and Johnson does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. Johnson and Johnson assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.

**End of Safety Data Sheet**