

**PV325**

Version 1

Revision Date 04/04/2008

Print Date 04/04/2008

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : PV325  
MSDS Number : 000000012862  
Product Use Description : film

Company : Honeywell International, Inc.  
101 Columbia Road  
Morristown, NJ 07962-1057

For more information call : 1-888 245-4738  
1-973-455-2145  
(Monday-Friday, 9:00am-5:00pm)

**In case of emergency call : Medical: 1-800-498-5701**  
: **Transportation: 1-800-424-9300 or 703-527-3887**  
: (24 hours/day, 7 days/week)

**SECTION 2. HAZARDS IDENTIFICATION****Emergency Overview**

Form : film

Color : white

Odor : odourless

Hazard Summary : No hazards resulting from the material as supplied. Exposure to components is not likely as these are encapsulated in the polymer and fully incorporated into the article. Vapour during processing may be irritating to the respiratory tract and to the eyes. Thermal decomposition can lead to release of irritating gases and vapours. At higher temperatures, (>250°C), decomposition products may include hydrochloric acid (HCl), hydrofluoric acid (HF) and carbonyl halides. The ACGIH Threshold Limit Values (2007) for Hydrogen Fluoride are TLV-TWA 0.5 ppm and Ceiling Exposure Limit 2 ppm.

**Potential Health Effects**

Skin : No hazards resulting from the material as supplied.

Eyes : No hazards resulting from the material as supplied.  
May cause mechanical irritation.

Ingestion : Unlikely route of exposure.  
No hazards resulting from the material as supplied.

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Inhalation : Unlikely route of exposure.  
No hazards resulting from the material as supplied.  
Vapour during processing may be irritating to the respiratory tract and to the eyes.

Chronic Exposure : None known.

**Carcinogenicity**

IARC: Titanium dioxide 13463-67-7

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS-No.	Weight %
Poly(ethylene terephthalate)	25038-59-9	74.95
Ethene, 1-chloro-1,2,2-trifluoro-, polymer with ethene	25101-45-5	18.61
Titanium dioxide	13463-67-7	3.54
Proprietary additives	-	<2.90

**SECTION 4. FIRST AID MEASURES**

Inhalation : No hazards which require special first aid measures. Vapour during processing may be irritating to the respiratory tract and to the eyes. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present. Call a physician.

Skin contact : No hazards which require special first aid measures. Cool skin rapidly with cold water after contact with hot polymer. Call a physician if irritation develops or persists.

Eye contact : No hazards which require special first aid measures. In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician if irritation develops or persists.

Ingestion : Unlikely route of exposure. No hazards which require special first aid measures. Consult a physician if necessary.

**Notes to physician**

Treatment : Treat symptomatically.

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**SECTION 5. FIRE-FIGHTING MEASURES**

- Flash point : not applicable
- Lower explosion limit : not applicable
- Upper explosion limit : not applicable
- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Specific hazards during fire fighting : The solid polymer can only be burned with difficulty.  
Forms or accumulates static electricity, may cause fire or explosion.  
May combust when in contact with naked flames, high temperature.  
In case of fire hazardous decomposition products may be produced such as:  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
Carbonyl halides  
Gaseous hydrogen chloride (HCl).  
Gaseous hydrogen fluoride (HF).
- Special protective equipment for fire-fighters : In the event of fire and/or explosion do not breathe fumes.  
Wear self-contained breathing apparatus and protective suit.  
No unprotected exposed skin areas.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions : Wear personal protective equipment. Unprotected persons must be kept away.
- Methods for cleaning up : Place spilled material in an appropriate container for disposal.

**SECTION 7. HANDLING AND STORAGE****Handling**

- Handling : Handle with care.  
Wear personal protective equipment.  
Handle in accordance with good industrial hygiene and safety practice.

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Advice on protection against fire and explosion : Keep away from heat and sources of ignition.

**Storage**

Requirements for storage areas and containers : Keep in a dry, cool and well-ventilated place.  
 Keep away from heat and sources of ignition.  
 Keep away from direct sunlight.  
 Store away from incompatible substances.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Eye protection : Wear as appropriate:  
Safety glasses with side-shields
- Hand protection : When handling hot material, use heat resistant gloves.
- Skin and body protection : Wear heat protective clothing for handling hot material.
- Respiratory protection : No personal respiratory protective equipment normally required.  
In the case of vapour formation use a respirator with an approved filter.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

**Exposure Guidelines**

Titanium dioxide	13463-67-7	ACGIH	TWA	10 mg/m3
		OSHA Z1	PEL	15 mg/m3
		Form of exposure	Total dust.	
		OSHA Z1A	TWA	10 mg/m3
		Form of exposure	Total dust.	
		TX ESL	ST ESL	50 ug/m3
		Form of exposure	Respirable.	
		TX ESL	AN ESL	5 ug/m3
		Form of exposure	Respirable.	

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Form : film

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Color	: white
Odor	: odourless
pH	: not applicable
Melting point/range	: >240 °C (464 °F)
Boiling point/boiling range	: not applicable
Vapor pressure	: no data available
Relative vapour density	: no data available, (Air = 1.0)
Density	: no data available
Water solubility	: negligible

**SECTION 10. STABILITY AND REACTIVITY**

Conditions to avoid	: Heat, flames and sparks. Keep away from direct sunlight. Avoid exposure to temperatures exceeding recommended processing conditions. Honeywell should be contacted if questions arise concerning specific processing conditions.
Materials to avoid	: Strong oxidizing agents Alkali metals Amines Halogenated compounds nitrogen oxides (NOx) Chlorine
Hazardous decomposition products	: In case of fire hazardous decomposition products may be produced such as: Carbon monoxide Carbon dioxide (CO <sub>2</sub> ) Carbonyl halides Gaseous hydrogen chloride (HCl). Gaseous hydrogen fluoride (HF).
Hazardous reactions	: Hazardous polymerisation does not occur. Stable under normal conditions.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity	: no data available
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Acute dermal toxicity : no data available  
Acute inhalation toxicity : no data available  
Additional advice : No toxicology information is available.

**SECTION 12. ECOLOGICAL INFORMATION**

Additional ecological information : We have no quantitative data concerning the ecological effects of this product.

**SECTION 13. DISPOSAL CONSIDERATIONS**

Waste Information: Observe all Federal, State, and Local Environmental regulations.

**SECTION 14. TRANSPORT INFORMATION**

**DOT** Not dangerous goods  
**TDG** Not dangerous goods  
**IATA** Not dangerous goods  
**IMDG** Not dangerous goods

**SECTION 15. REGULATORY INFORMATION****Inventories**

US. Toxic Substances Control Act : On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133) : On the inventory, or in compliance with the inventory

**National regulatory information**

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**SARA 311/312 Hazards** : No SARA Hazards**California Prop. 65** : This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.**Massachusetts RTK** : Titanium dioxide 13463-67-7**New Jersey RTK** : Titanium dioxide 13463-67-7**Pennsylvania RTK** : Titanium dioxide 13463-67-7**WHMIS Classification** : Not Rated**SECTION 16. OTHER INFORMATION**

	<b>HMIS III</b>	<b>NFPA</b>
Health Hazard	: 0	0
Flammability	: 1	1
Physical Hazard	: 0	
Instability	:	0