

**ELVALOY® HP441 resin**

Version 2.2

Revision Date 08/12/2011

Ref. 130000034967

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : ELVALOY® HP441 resin  
MSDS Number : 130000034967

Manufacturer : DuPont  
1007 Market Street  
Wilmington, DE 19898

Product Information : 1-800-441-7515 (outside the U.S. 1-302-774-1000)  
Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)  
Transport Emergency : CHEMTREC: 1-800-424-9300 (outside the U.S. 1-703-527-3887)

**SECTION 2. HAZARDS IDENTIFICATION**

## Potential Health Effects

Processing temperatures that exceed those described in Section 10 (Conditions to Avoid), may evolve fumes irritating the eyes, nose and throat., Exposure may result in reddening, tears and itching of the eyes and soreness in the nose and throat, together with coughing.

Eyes : Resin particles, like other inert materials, are mechanically irritating to eyes.

Ingestion : Is not considered a potential route of exposure.

## Carcinogenicity

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

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

Component	CAS-No.	Concentration
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Ethylene Acrylate Copolymer		>98%
ADDITIVES		<2 %

**SECTION 4. FIRST AID MEASURES**

- Skin contact : The material is not likely to be hazardous by skin contact, but cleansing the skin after use is advisable. Cool skin rapidly with cold water after contact with molten material. Do not attempt to remove material from the skin. Obtain medical treatment for thermal burn. Wash contaminated clothing before reuse.
- Eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
- Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
- Ingestion : Not a probable route of exposure. However, in case of accidental ingestion, call a physician.

**SECTION 5. FIREFIGHTING MEASURES**

- Flammable Properties
- Flash point : 430 °C (806 °F) closed cup  
Method : Setckin Furnace
- Fire and Explosion Hazard : Material in pellet form may accumulate static charge when poured from one container to another.
- Suitable extinguishing media : Water, Foam, Dry chemical, Carbon dioxide (CO<sub>2</sub>)
- Firefighting Instructions : Wear self-contained breathing apparatus and protective suit. The solid polymer can only be burned with difficulty. Evacuate personnel and keep upwind of fire. Grounding and elimination of the static charge is recommended.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Spill Cleanup : Shovel or sweep up.

Accidental Release Measures : Do not discharge to streams, ponds, lakes or sewers.

**SECTION 7. HANDLING AND STORAGE**

Handling (Personnel) : Before using, read the product bulletin.

Storage : Store in a cool, dry place. Keep container closed to prevent contamination.

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

Engineering controls : Use sufficient ventilation to keep employee exposure below recommended limits. When hot processing this material, use local and/or general exhaust ventilation to maintain the concentration of vapors and fumes below exposure limits. Use static controls. Static charges can cause explosions in solvent and dust laden atmospheres. See Bulletin "Proper Use of Local Exhaust Ventilation During Processing of Plastics".

Personal protective equipment  
Respiratory protection : A respiratory protection program that meets country requirements must be followed whenever workplace conditions warrant respirator use. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.  
Consult the OSHA respiratory protection information located at 29CFR 1910.134.

Hand protection : Additional protection: Protective gloves



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Eye protection : Wear safety glasses with side shields. Wear tightly fitting chemical splash goggles and face shield when possibility exists for eye and face contact due to spattering or splashing of molten material.

Skin and body protection : If there is a potential for contact with hot/molten material wear heat resistant clothing and footwear.

Exposure Guidelines

Exposure Limit Values

Butyl acrylate

TLV	(ACGIH)	2 ppm	TWA
AEL *	(DUPONT)	2 ppm	8 & 12 hr. TWA, Skin

Dust (inhalable and respirable fraction)

PEL:	(OSHA)	5 mg/m3	8 hr. TWA Respirable fraction.
		Remarks	All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by the Particulates Not Otherwise Regulated (PNOR) limit which is the same as the inert or nuisance dust limit of Table Z-3.

PEL: (OSHA) 15 mg/m3 8 hr. TWA Total dust.

TLV (ACGIH) 10 mg/m3 TWA Inhalable particles.

TLV (ACGIH) 3 mg/m3 TWA Respirable particles.

White mineral oil (petroleum)

PEL: (OSHA) 5 mg/m3 8 hr. TWA Mist.

TLV (ACGIH) 5 mg/m3 TWA Mist.

TLV (ACGIH) 10 mg/m3 STEL Mist.

TLV (ACGIH) 5 mg/m3 TWA Inhalable fraction.

Distillates (petroleum), hydrotreated light

TLV (ACGIH) 200 mg/m3 TWA Non-aerosol. as total hydrocarbon vapor



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Remarks P: Application restricted to conditions in which there are negligible aerosol exposures.

Skin designation

TLV (ACGIH) 200 mg/m3 vapor  
Remarks

TWA Non-aerosol. as total hydrocarbon

P: Application restricted to conditions in which there are negligible aerosol exposures.

Skin designation

\* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Form : pellets  
Color : clear  
Odor : mild, acrylic-like  
Water solubility : negligible

**SECTION 10. STABILITY AND REACTIVITY**

Stability : Stable at normal temperatures and storage conditions.  
Conditions to avoid : Temperature > 250 °C (> 482 °F)  
Incompatibility : None reasonably foreseeable.  
Hazardous decomposition products : Decomposition is a function of both processing temperature and time at that temperature.  
Decomposition can occur below the recommended processing temperature limit.  
At temperatures above the "conditions to avoid" temperature, thermal

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decomposition of the resin becomes rapid.  
Hazardous decomposition products: Carbon monoxide, Organic acids,  
Aldehydes, Alcohols, nitrogen oxides (NOx)

Hazardous reactions : Polymerization will not occur.

**SECTION 11. TOXICOLOGICAL INFORMATION**

ELVALOY® HP441 resin  
Further information : There is no data available for this product.  
Ethylene Acrylate Copolymer  
Oral ALD : > 11,000 mg/kg , rat  
Mutagenicity : Evidence suggests this substance does not cause genetic damage in cultured bacterial cells.

**SECTION 12. ECOLOGICAL INFORMATION**

Aquatic Toxicity  
Ethylene Acrylate Copolymer : The substance is a polymer and is not expected to produce toxic effects.  
Additional ecological information : No data is available on the product itself. Toxicity is expected to be low based on insolubility in water.

**SECTION 13. DISPOSAL CONSIDERATIONS**

Waste Disposal : Preferred options for disposal are recycling, incineration with energy recovery, and landfill. The high fuel value of this product makes incineration very desirable for material that cannot be recycled. Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations.

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**SECTION 14. TRANSPORT INFORMATION**

Not classified as dangerous in the meaning of transport regulations.

**SECTION 15. REGULATORY INFORMATION**

TSCA Status	: In compliance with TSCA Inventory requirements for commercial purposes.
NZ HSNO Status	: Exempt
SARA 313 Regulated Chemical(s)	: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
California Prop. 65	: <b>WARNING!</b> This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Carbon monoxide
PA Right to Know Regulated Chemical(s)	: Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances): None known.
NJ Right to Know Regulated Chemical(s)	: Substances on the New Jersey Workplace Hazardous Substance List present at a concentration of 1% or more (0.1% for substances identified as carcinogens, mutagens or teratogens): None known.

**SECTION 16. OTHER INFORMATION**

Restrictions for use	: Do not use DuPont materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided from DuPont under a written contract that is consistent with DuPont policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont representative. You may also request a copy
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of the DuPont POLICY Regarding Medical Applications H-50103-3 and  
DuPont CAUTION Regarding Medical Applications H-50102-3.

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Significant change from previous version is denoted with a double bar.