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® 741 resin
MSDS Number : 130000021382
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
Before using, read the product bulletin., 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.

Skin
  Vinyl acetate : May cause skin irritation.
  May cause: Discomfort, itching, redness, or swelling.
  Distillates (petroleum), hydrotreated light : May cause: Drying of skin with itching, redness or rash, Systemic toxicity, The material may be absorbed through the skin.. Prolonged contact may cause: Severe irritation

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

Inhalation
  Vinyl acetate : May cause respiratory tract irritation.
  Distillates (petroleum), hydrotreated light : May cause: Respiratory irritation
Ingestion: Is not considered a potential route of exposure.

Target Organs:
- Vinyl acetate: Respiratory Tract
- Distillates (petroleum), hydrotreated light: Skin, Blood, Kidney

Carcinogenicity:
- Material
  - IARC
  - NTP
  - OSHA
  - Vinyl acetate: 2B

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Olefin copolymers</td>
<td></td>
<td>&gt;98%</td>
</tr>
<tr>
<td>Vinyl acetate</td>
<td>108-05-4</td>
<td>&lt;0.5 %</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>64742-47-8</td>
<td>&lt;1 %</td>
</tr>
</tbody>
</table>

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 : 390 °C (734 °F) closed cup
Method : ASTM D 1929

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 (CO2)

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.

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

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

<table>
<thead>
<tr>
<th>Dust (inhaling and respirable fraction)</th>
<th>PEL: (OSHA) 5 mg/m³</th>
<th>8 hr. TWA Respirable fraction.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL: (OSHA) 15 mg/m³</td>
<td>8 hr. TWA Total dust.</td>
<td></td>
</tr>
<tr>
<td>Substance</td>
<td>TLV (ACGIH)</td>
<td>PEL: (OSHA)</td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>-------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>10 mg/m^3</td>
<td>5 mg/m^3</td>
</tr>
<tr>
<td>Vinyl acetate</td>
<td>10 ppm</td>
<td>5 mg/m^3</td>
</tr>
<tr>
<td>White mineral oil (petroleum)</td>
<td>5 mg/m^3</td>
<td>5 mg/m^3</td>
</tr>
<tr>
<td></td>
<td>10 mg/m^3</td>
<td>5 mg/m^3</td>
</tr>
</tbody>
</table>

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

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Form</th>
<th>pellets</th>
</tr>
</thead>
</table>
Color: white
Odor: mild, ester-like
Water solubility: negligible

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable at normal temperatures and storage conditions.

Conditions to avoid: Temperature > 240 °C (> 464 °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.

Hazardous decomposition products: Carbon monoxide, Organic acids, Aldehydes, Alcohols, Vinyl acetate, Acetic acid

Hazardous reactions: Polymerization will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Olefin copolymers

Oral LD50: > 11,000 mg/kg, rat

Further information: The substance is a polymer and is not expected to produce toxic effects.

Vinyl acetate

Dermal LD50: 7,440 mg/kg, rabbit

Oral LD50: 3,500 mg/kg, rat

Inhalation 4 h LC50: 15.8 mg/l, rat

Target Organs: Respiratory Tract
Material Safety Data Sheet

ELVALOY® 741 resin

Version 3.0

Revision Date 04/24/2012 Ref. 130000021382

Respiratory tract irritation

Skin irritation : slight irritation, rabbit
Eye irritation : slight irritation, rabbit
Skin sensitization : Did not cause sensitization on laboratory animals., mouse
Repeated dose toxicity : Inhalation multiple species Pathologic changes, Respiratory Tract, Respiratory tract irritation

Carcinogenicity : An increased incidence of tumours was observed in laboratory animals.

Mutagenicity : Overall weight of evidence indicates that the substance is not mutagenic. Genetic damage in animals was observed in some laboratory tests but not in others. Genetic damage in cultured mammalian cells was observed in some laboratory tests but not in others. Did not cause genetic damage in cultured bacterial cells.

Reproductive toxicity : Animal testing showed no reproductive toxicity.

Teratogenicity : Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

Distillates (petroleum), hydrotreated light
Dermal LD50 : > 2,000 mg/kg , rabbit
Oral LD50 : > 2,000 mg/kg , rat
Inhalation 4 h ALC - Approximate Lethal Concentration Skin irritation : > 5.5 mg/l , rat Respiratory irritation slight irritation, rabbit
Eye irritation : Mild eye irritation, rabbit
Skin sensitization : Did not cause sensitization on laboratory animals., guinea pig Information given is based on data obtained from similar substances.
Repeated dose toxicity: Inhalation multiple species

No toxicologically significant effects were found.

Dermal rabbit

Target Organs: Blood, Skin
Reduced body weight gain, Organ weight changes, Severe skin irritation, altered hematology

Inhalation rat, males
Target Organs: Kidney
Kidney damage, Information given is based on data obtained from similar substances.

Dermal mouse

Target Organs: Skin
Severe skin irritation

Carcinogenicity: An increased incidence of tumours was observed in some laboratory animals but not in others. Overall weight of evidence indicates that the substance is not carcinogenic. The observed tumors do not appear to be relevant for men. Information given is based on data obtained from similar substances.

Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Animal testing did not show any mutagenic effects. Information given is based on data obtained from similar substances.

Reproductive toxicity: Animal testing showed no reproductive toxicity. Information given is based on data obtained from similar substances.

Teratogenicity: Animal testing showed no developmental toxicity. Information given is based on data obtained from similar substances.
SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

Olefin copolymers

: The substance is a polymer and is not expected to produce toxic effects.

Vinyl acetate

96 h LC50 : Fathead minnow 24 mg/l
72 h ErC50 : Pseudokirchneriella subcapitata (green algae) 12.7 mg/l
48 h EC50 : Daphnia 12.6 mg/l

Distillates (petroleum), hydrotreated light

96 h LC50 : Lepomis macrochirus (Bluegill sunfish) 2.2 mg/l
96 h LC50 : Oncorhynchus mykiss (rainbow trout) 2.6 mg/l
IC50 : Algae 4.2 mg/l

Environmental Fate

Vinyl acetate

Bioaccumulation : Bioconcentration factor (BCF) : 3.16
Bioaccumulation is unlikely.

Distillates (petroleum), hydrotreated light

Biodegradability : Not readily biodegradable.

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.

SECTION 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>TSCA Status</th>
<th>In compliance with TSCA Inventory requirements for commercial purposes.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SARA 313 Regulated Chemical(s)</td>
<td>Vinyl acetate</td>
</tr>
<tr>
<td>California Prop. 65</td>
<td>WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Carbon monoxide</td>
</tr>
<tr>
<td>PA Right to Know Regulated Chemical(s)</td>
<td>Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances): None known.</td>
</tr>
<tr>
<td>NJ Right to Know Regulated Chemical(s)</td>
<td>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): Vinyl acetate</td>
</tr>
</tbody>
</table>

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 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.