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Revision Date 05/23/2014

Ref. 130000021506

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 MSDS Number	:	ELVANOL <sup>®</sup> 71-30 polyvinyl alcohol 130000021506
Manufacturer	:	DuPont 1007 Market Street Wilmington, DE 19898
Product Information Medical Emergency Transport Emergency	:	1-800-441-7515 (outside the U.S. 1-302-774-1000) 1-800-441-3637 (outside the U.S. 1-302-774-1139) CHEMTREC: +1-800-424-9300 (outside the U.S. +1-703-527-3887)

#### SECTION 2. HAZARDS IDENTIFICATION

**Emergency Overview** 

Resin particles, like other inert materials, are mechanically irritating to eyes. May form explosive dust-air mixture. Avoid breathing dust or solution spray.

**Potential Health Effects** 

Processing temperatures that exceed those described in Section 10 (Conditions to Avoid), may evolve fumes irritating the eyes, nose and throat.

Skin	Experience shows no unusual dermatitis hazard from routine handling.	
Eyes Vinyl alcohol polymer	: May irritate eyes.	
Methanol	: May cause eye irritation. May cause: Tearing, redness, or discomfort.	
Methyl acetate	: Causes eye irritation. May cause:, Pain, tearing, swelling, redr temporary visual impairment	ess, or
Inhalation	: Exposure may result in reddening, tears and itching of the eye soreness in the nose and throat, together with coughing.	s and
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Ingestion Methanol	<ul> <li>Toxic if swallowed.</li> <li>May cause: Central nervous system effects, narcosis, eye effects.</li> <li>Causes damage to the kidneys/ liver/ eyes/ brain/ digestive system/ central nervous system if swallowed. Impairment of vision, Blindness.</li> </ul>
Repeated exposure Vinyl alcohol polymer	: Adverse effects from repeated inhalation may include: Kidney damage Liver effects Adverse effects from repeated ingestion may include: Vomiting Diarrhea Kidney effects
Target Organ Methanol	: Central nervous system Eyes
Methyl acetate	: Central nervous system

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

CAS-No.	Concentration
	>89%
	<10 %
67-56-1	<1 %
79-20-9	<0.1 %
	67-56-1

### **SECTION 4. FIRST AID MEASURES**



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Skin contact	<ul> <li>In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse.</li> </ul>
Inhalation	: Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. 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 MEA	SURES
Flammable Properties Flash point	: no data available
Fire and Explosion Hazard	: Static charges can accumulate and lead to a spark capable of starting a fire. Dust may form explosive mixture in air.
	Under conditions giving incomplete combustion, hazardous gases produced may consist of: Carbon dioxide (CO2) Carbon monoxide hydrocarbon oxidation products Organic acids Aldehydes Alcohols Sodium oxides
Suitable extinguishing media	: Water, Foam, Carbon dioxide (CO2)
Firefighting Instructions	: Wear self-contained breathing apparatus and protective suit. The solid polymer can only be burned with difficulty. Grounding and elimination of the static charge is recommended. Under severe dusting conditions, this material may form explosive mixtures in air. Information about special precautions needed for bulk handling is available on request.
SECTION 6. ACCIDENTAL RELEA	ASE MEASURES
	G MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. ROTECTIVE EQUIPMENT during clean-up.
Spill Cleanup	: Shovel or sweep up. Avoid generating dust.
Accidental Release Measures	: Do not discharge to streams, ponds, lakes or sewers.
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LVANOL® 71-30 poly	vinvl aloo	hol	
	viilyi alco		
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		Skin designat	lion
TLV	(ACGIH)	200 ppm	TWA
AEL *	(DUPONT)	200 ppm	8 & 12 hr. TWA, Skin
		Skin designat	tion
Biological Exposure Indices	;		
Methanol			
BEI	(ACGIH)	15 mg/l Meth Sampling time	nanol/Urine e: End of shift.
lower than the AEL are in e	ffect, such limi	its shall take pre	
lower than the AEL are in e	ffect, such limi	DPERTIES 392 °F)	
lower than the AEL are in e ECTION 9. PHYSICAL AND CH Form Color Odor Melting point Specific gravity Water solubility ECTION 10. STABILITY AND R Stability	ffect, such limi <b>IEMICAL PRO</b> : powder : clear : mild : 200 °C ( : > 1 : partly so	DPERTIES DPERTIES 392 ℃) Nuble	rernmentally imposed occupational exposure limits which are
lower than the AEL are in e ECTION 9. PHYSICAL AND CH Form Color Odor Melting point Specific gravity Water solubility ECTION 10. STABILITY AND R	ffect, such limi <b>IEMICAL PRC</b> : powder : clear : mild : 200 °C ( : > 1 : partly so <b>REACTIVITY</b> : Stable a	DPERTIES DPERTIES 392 ℃) Nuble	ratures and storage conditions.
lower than the AEL are in e ECTION 9. PHYSICAL AND CH Form Color Odor Melting point Specific gravity Water solubility ECTION 10. STABILITY AND R Stability	ffect, such limi <b>IEMICAL PRC</b> : powder : clear : mild : 200 °C ( : > 1 : partly so <b>REACTIVITY</b> : Stable at : Tempera	its shall take pre DPERTIES 392 °F) oluble	ratures and storage conditions. > 392 °F)





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Skin irritation	:	Slight or no skin irritation, rabbit
Eye irritation	:	slight irritation, rabbit
Skin sensitization	:	Did not cause sensitisation on laboratory animals., guinea pig
Carcinogenicity	:	Not classifiable as a human carcinogen.
Mutagenicity	:	Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Reproductive toxicity	:	No toxicity to reproduction
Teratogenicity	:	No toxicity to reproduction
Methyl acetate Dermal LD50	:	> 2,000 mg/kg , rat
Oral LD50	:	6,482 mg/kg , rat Target Organs: Central nervous system
Inhalation 4 h LC50	:	> 49.2 mg/l , rabbit Target Organs: Central nervous system
Skin irritation	:	Repeated exposure may cause skin dryness or cracking., rabbit
Eye irritation	:	Eye irritation, rabbit
Skin sensitization	:	Does not cause skin sensitisation., human
Repeated dose toxicity	:	Inhalation rat
		No toxicologically significant effects were found., Information given is based on data obtained from similar substances.
Carcinogenicity	:	Not classifiable as a human carcinogen. Overall weight of evidence indicates that the substance is not carcinogenic. Information given is based on data obtained from similar substances.
Mutagenicity	:	Animal testing did not show any mutagenic effects. Did not cause genetic damage in cultured bacterial cells.
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Reproductive toxicity	<ul> <li>No toxicity to reproduction</li> <li>Animal testing showed no reproductive toxicity.</li> <li>Information given is based on data obtained from similar substances.</li> </ul>
Teratogenicity	: Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

### SECTION 12. ECOLOGICAL INFORMATION

Aquat Vinyl alcoh	tic Toxicity ol polymer 96 h LC50	:	Pimephales promelas (fathead minnow) > 10,000 mg/l
Methanol	96 h LC50	:	Pimephales promelas (fathead minnow) 28,100 mg/l
	96 h LC50	:	Selenastrum capricornutum (green algae) 22,000 mg/l
	48 h EC50	:	Daphnia > 10,000 mg/l
Methyl ace	tate		
,	96 h LC50	:	Danio rerio (zebra fish) 250 mg/I OECD Test Guideline 203
	72 h ErC50	:	Desmodesmus subspicatus (green algae) > 120 mg/l OECD Test Guideline 201
	72 h NOEC	:	Desmodesmus subspicatus (green algae) 120 mg/I OECD Test Guideline 201
	48 h EC50	:	Daphnia magna (Water flea) 1,026.7 mg/I OECD Test Guideline 202
-	nmental Fate		
Methanol	Biodegradability	:	Readily biodegradable.
	Bioaccumulation	:	Bioaccumulation is unlikely.
Additio	onal ecological information	:	No data is available on the product itself. Toxicity is expected to be low based on insolubility in water.
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# **QUPOND**

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### 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

TSCA	: In compliance with TSCA Inventory requirements for commercial purposes.
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.
CERCLA Reportable Quantity	: 3,823 lbs Based on the percentage composition of this chemical in the product.: Unspecified sodium compounds
California Prop. 65	<ul> <li>WARNING! This product contains a chemical or chemicals known to the State of California to cause cancer.</li> <li>WARNING! This product contains a chemical or chemicals known to the State of California to cause birth defects or other reproductive harm.</li> </ul>
PA Right to Know Regulated Chemical(s)	<ul> <li>Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances): None known.</li> </ul>

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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): Methanol
SECTION 16. OTHER INFORM	ATION
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 and DuPont CAUTION Regarding Medical Applications.
	Trademark of E.I. du Pont de Nemours and Company. registered trademark of E.I. du Pont de Nemours and Company.
date of its publication. The transportation, disposal and relates only to the specific	this Safety Data Sheet is correct to the best of our knowledge, information and belief at the information given is designed only as a guidance for safe handling, use, processing, storage, d release and is not to be considered a warranty or quality specification. The information material designated and may not be valid for such material used in combination with any ocess, unless specified in the text.
Significant change from pre	evious version is denoted with a double bar.