

**SURLYN® 1652-1 resin**

Version 2.3

Revision Date 09/16/2009

Ref. 130000022008

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 : SURLYN® 1652-1 resin  
MSDS Number : 130000022008  
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  
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
Ethylene methacrylic acid copolymer, partial zinc salt		>99%

**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. FIRE-FIGHTING MEASURES**

Fire and Explosion Hazard : Material in pellet form may accumulate static charge when poured from one container to another.



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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



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clothing and footwear.

Exposure Guidelines

Exposure Limit Values

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		Dust (inhalable and respirable fraction)		
TLV	(ACGIH)	10 mg/m3 TWA	Inhalable particles.	
		3 mg/m3 TWA	Respirable particles.	
PEL (Permissible Exposure Limit)	(OSHA)	5 mg/m3 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.

15 mg/m3 TWA Total dust.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Form	: solid
Color	: clear or pigmented
Odor	: mild, methacrylic acid
Melting point/range	: 80 - 100 °C (176 - 212 °F)
	: no data available
Water solubility	: negligible

**SECTION 10. STABILITY AND REACTIVITY**

Stability	: Stable at normal temperatures and storage conditions.
Conditions to avoid	: Temperature > 325 °C (> 617 °F) Decomposes on heating.
Incompatibility	: Oxidizing agents
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 decomposition of the resin becomes rapid. Hazardous decomposition products Carbon monoxide, Organic acids, Aldehydes, Alcohols
Hazardous reactions	: Polymerization will not occur.

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**SECTION 11. TOXICOLOGICAL INFORMATION**

Ethylene methacrylic acid copolymer, partial zinc salt

Oral ALD : > 7,500 mg/kg, rat  
Information given is based on data obtained from similar substances.

Further information : The substance is a polymer and is not expected to produce toxic effects. Information given is based on data obtained from similar substances.

**SECTION 12. ECOLOGICAL INFORMATION**

Aquatic Toxicity

Ethylene methacrylic acid copolymer, partial zinc salt

: 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.

**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) : Poly(ethylene/methacrylic acid) zinc salt As a member of the class of zinc compounds (7440-66-6) &lt; 5%

California Prop. 65 : Chemicals known to State of California to cause cancer, birth defects or any other harm: none known

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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): Poly(ethylene/methacrylic acid) zinc salt  
As a member of the class of zinc compounds (7440-66-6) < 5%

**SECTION 16. OTHER INFORMATION**

MSDS preparation date : 09/16/2009  
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.

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.

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