



The MSDS format adheres to the standards and regulatory requirements of the United States and may not meet regulatory requirements in other countries.

DuPont  
Material Safety Data Sheet

Page 1

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"SURLYN" PACKAGING RESIN ALL IN SYNONYM LIST SUR011  
SUR011 Revised 5-FEB-2003  
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CHEMICAL PRODUCT/COMPANY IDENTIFICATION  
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Material Identification

"SURLYN" is a registered trademark of DuPont.

# Tradenames and Synonyms

"SURLYN" 9020, 9020P,

Company Identification

MANUFACTURER/DISTRIBUTOR

DuPont Packaging & Industrial Polymers  
1007 Market Street  
Wilmington, DE 19898

PHONE NUMBERS

Product Information : 1-(800)-441-7515  
Transport Emergency : 1-(800)-424-9300  
Medical Emergency : 1-(800)-441-3637

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COMPOSITION/INFORMATION ON INGREDIENTS  
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# Components

Material	CAS Number	%
ETHYLENE COPOLYMERS, PARTIAL ZINC SALT		>99
*ZINC COMPOUNDS	7440-66-6	<5

\* Disclosure as a toxic chemical is required under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

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HAZARDS IDENTIFICATION  
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Potential Health Effects

Before using "SURLYN" Packaging Resins, read the bulletin on the safe handling of these polymers.

No information available for this "SURLYN" ionomer resin or for the ethylene/methacrylic acid copolymer partial metal salt. Based on its similarity to other polymers, this "SURLYN" resin is predicted to have low toxicity.

## (HAZARDS IDENTIFICATION - Continued)

## Carcinogenicity Information

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

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FIRST AID MEASURES  
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## First Aid

## INHALATION

No specific intervention is indicated as the compound is not likely to be hazardous by inhalation. Consult a physician if necessary.

## SKIN CONTACT

The compound is not likely to be hazardous by skin contact but cleansing the skin after use is advisable.

## EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

## INGESTION

No specific intervention is indicated as compound is not likely to be hazardous by ingestion. Consult a physician if necessary.

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FIRE FIGHTING MEASURES  
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## # Flammable Properties

## Fire and Explosion Hazards:

The solid polymer can be combusted only with difficulty.

Hazardous gases/vapors produced in fire are carbon monoxide, and, hydrocarbon oxidation products, including, organic acids, aldehydes, and, alcohols, and, zinc oxides.

## Extinguishing Media

Water, Foam, Dry Chemical, CO2.

## Fire Fighting Instructions

Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus.

(FIRE FIGHTING MEASURES - Continued)

Use self-contained breathing apparatus if exposed to fumes.

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ACCIDENTAL RELEASE MEASURES  
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Safeguards (Personnel)

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

Spill Clean Up

Recover undamaged and minimally contaminated material for reuse and reclamation.

Accidental Release Measures

Sweep up to avoid slipping hazard.

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HANDLING AND STORAGE  
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Handling (Personnel)

See FIRST AID and PROTECTION INFORMATION SECTIONS

Storage

Store in a cool dry place. Keep containers closed to prevent contamination.

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EXPOSURE CONTROLS/PERSONAL PROTECTION  
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Engineering Controls

VENTILATION Local exhaust ventilation should be used over processing equipment.

Personal Protective Equipment

EYE/FACE PROTECTION

Wear safety glasses. Wear coverall chemical splash goggles and face shield when possibility exists for eye and face contact due to splashing or spraying of molten material. A full face mask respirator provides protection from eye irritation.

RESPIRATORS

A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge with a dust/mist canister may be permissible under certain circumstances where airborne

## (EXPOSURE CONTROLS/PERSONAL PROTECTION - Continued)

concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not know, or any other circumstances where air purifying respirators may not provide adequate protection.

## PROTECTIVE CLOTHING

If there is potential contact with hot/molten material, wear heat resistant clothing and footwear.

## Exposure Guidelines

## Exposure Limits

"SURLYN" PACKAGING RESIN ALL IN SYNONYM LIST SUR011  
PEL (OSHA) : Particulates (Not Otherwise Regulated)  
15 mg/m<sup>3</sup>, 8 Hr. TWA, total dust  
5 mg/m<sup>3</sup>, 8 Hr. TWA, respirable dust

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PHYSICAL AND CHEMICAL PROPERTIES  
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## Physical Data

Melting Point : NA  
% Volatiles : Negligible  
Solubility in Water : Negligible  
Odor : Mild methacrylic acid  
Form : Pellets  
Color : White  
Specific Gravity : NA

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STABILITY AND REACTIVITY  
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## Chemical Stability

Stable at normal temperatures and storage conditions.

## Incompatibility with Other Materials

Incompatible with oxidizing agents.

## # Decomposition

Decomposes with heat.

Decomposition temperature: 325 C (617 F)

Hazardous gases or vapors can be released, including carbon monoxide, and, hydrocarbon oxidation products, including, organic acids, aldehydes, and, alcohols, and, zinc oxides.

## (STABILITY AND REACTIVITY - Continued)

## Polymerization

Polymerization will not occur.

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ECOLOGICAL INFORMATION  
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## Ecotoxicological Information

## Aquatic Toxicity

No information. Toxicity is expected to be low based on negligible water solubility.

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DISPOSAL CONSIDERATIONS  
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## Waste Disposal

Preferred options for disposal are (1) recycling, (2) incineration with energy recovery, and (3) landfill. The high fuel value of this product makes option 2 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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TRANSPORTATION INFORMATION  
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## Shipping Information

DOT  
Proper Shipping Name : Not regulated

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REGULATORY INFORMATION  
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## U.S. Federal Regulations

TSCA Inventory Status : In compliance with TSCA Inventory requirements for commercial purposes.

## # State Regulations (U.S.)

## STATE RIGHT-TO-KNOW

No substances on the state hazardous substances list, for the states indicated below, are used in the manufacture of products on this Material Safety Data Sheet, with the exceptions indicated.

SUBSTANCES ON THE PENNSYLVANIA HAZARDOUS SUBSTANCES LIST PRESENT AT A CONCENTRATION OF 1 % OR MORE (0.01% FOR SPECIAL HAZARDOUS SUBSTANCES)- Zinc.

## (REGULATORY INFORMATION - Continued)

WARNING - SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE  
CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM- None known.

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)- Zinc.

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OTHER INFORMATION  
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## Additional Information

MEDICAL USE: CAUTION: Do not use in medical applications  
involving permanent implantation in the human body. For other  
medical applications see DuPont CAUTION Bulletin No. H-50102.

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The data in this Material Safety Data Sheet relates only to the  
specific material designated herein and does not relate to use in  
combination with any other material or in any process.

Responsibility for MSDS : T. P. PRICE  
DUPONT PACKAGING & INDUSTRIAL POLYMERS  
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WILMINGTON, DE 19880-0713  
Telephone : 302-999-4664

# Indicates updated section.

This information is based upon technical information believed to be  
reliable. It is subject to revision as additional knowledge and  
experience is gained.

End of MSDS