



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

-----  
"SURLYN" PACKAGING RESIN ALL IN SYNONYM LIST SUR012  
SUR012 Revised 1-AUG-2003  
-----

-----  
CHEMICAL PRODUCT/COMPANY IDENTIFICATION  
-----

Material Identification

"SURLYN" is a registered trademark of DuPont.

Corporate MSDS Number : DU007014  
CAS Number : NA

Tradenames and Synonyms

"SURLYN" 7930, 7940  
"SURLYN" AD8181, AD8546, #

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

-----  
COMPOSITION/INFORMATION ON INGREDIENTS  
-----

Components

Material	CAS Number	%
ETHYLENE/METHACRYLIC ACID COPOLYMERS, PARTIAL LITHIUM SALT		>99

Components (Remarks)

Material is not known to contain Toxic Chemicals under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

-----  
HAZARDS IDENTIFICATION  
-----

# Potential Health Effects

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

No information available for this "SURLYN" Packaging resin or for the ethylene/methacrylic acid copolymer partial metal

## (HAZARDS IDENTIFICATION - Continued)

salt. There is a low level of a lithium partial salt in these products bound in a polymer matrix. Less than 3% of the total lithium can be extracted in water at room temperature in six hours. Gross overexposure to lithium affects the central nervous system.

Lithium is classified by DuPont as a Known Human Developmental Toxin, based on birth defects observed following oral administration in pregnant women at high therapeutic doses. Based on all the available information, lithium is not expected to significantly penetrate the skin. Therefore, a low risk for lithium toxicity exists in the workplace provided airborne levels do not exceed a time-weighted average (8 hours) of 1 mg/m<sup>3</sup> and lithium compounds are not ingested.

## 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.

-----  
FIRST AID MEASURES  
-----

## # First Aid

## INHALATION

No specific intervention is indicated as the compound is not likely to be hazardous by inhalation at ambient temperatures. Consult a physician if necessary. If exposed to fumes from overheating or combustion, move to fresh air. Consult a physician if symptoms persist.

## SKIN CONTACT

The compound is not likely to be hazardous by skin contact, but cleansing the skin after use is advisable. Protect skin from contact with molten polymer or heated, molded parts by wearing chemical and heat-resistant gloves. If molten polymer gets on skin, cool rapidly with cold water. Do not attempt to peel polymer from skin. Obtain medical treatment for thermal burn.

## EYE CONTACT

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

## INGESTION

Not a probable route. However, in case of accidental ingestion, call a physician.

-----  
FIRE FIGHTING MEASURES  
-----

## # Flammable Properties

## Fire and Explosion Hazards:

UNUSUAL FIRE, EXPLOSION HAZARDS The solid polymer can be combusted only with difficulty. An electrostatic charge can potentially build up when pouring pellets. Grounding of equipment is recommended.

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

## Extinguishing Media

Water, Foam, Dry Chemical, CO2.

## Fire Fighting Instructions

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

-----  
ACCIDENTAL RELEASE MEASURES  
-----

## 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

Sweep up to avoid slipping hazard.

Recover undamaged and minimally contaminated material for reuse and reclamation.

-----  
HANDLING AND STORAGE  
-----

## Handling (Personnel)

See FIRST AID and PERSONAL PROTECTIVE EQUIPMENT SECTIONS.

## Storage

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

-----  
EXPOSURE CONTROLS/PERSONAL PROTECTION  
-----

## Engineering Controls

Use sufficient ventilation to keep employee exposure below recommended limits.

## # 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 filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

During grinding, sanding, or sawing operations use a NIOSH/MSHA approved air purifying respirator with dust/mist cartridge or canister if airborne particulate concentrations are expected to exceed permissible exposure levels.

## PROTECTIVE CLOTHING

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

Wear leather or cotton gloves when sawing, routing, drilling or sanding.

## Exposure Guidelines

## Exposure Limits

"SURLYN" PACKAGING RESIN ALL IN SYNONYM LIST SUR012

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

-----  
PHYSICAL AND CHEMICAL PROPERTIES  
-----

## # Physical Data

Melting Point	: 80-100 C (176-212 F)
% Volatiles	: Negligible
Solubility in Water	: Negligible
Odor	: Mild methacrylic acid
Form	: Pellets
Color	: White
Specific Gravity	: ~0.94

-----  
STABILITY AND REACTIVITY  
-----

## Chemical Stability

Stable at normal temperatures and storage conditions.

## Incompatibility with Other Materials

Incompatible or can react with oxidizing agents.

## # Decomposition

Decomposes with heat.

Decomposition temperature: 325 C (617 F)

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

## Polymerization

Polymerization will not occur.

-----  
ECOLOGICAL INFORMATION  
-----

## Ecotoxicological Information

## AQUATIC TOXICITY:

No information is available.

-----  
DISPOSAL CONSIDERATIONS  
-----

## 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.

-----  
TRANSPORTATION INFORMATION  
-----

## Shipping Information

DOT  
Proper Shipping Name : Not regulated

-----  
REGULATORY INFORMATION  
-----

## # U.S. Federal Regulations

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

## State Regulations (U.S.)

## STATE RIGHT-TO-KNOW LAWS

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.

SUBSTANCES ON THE PENNSYLVANIA HAZARDOUS SUBSTANCES LIST PRESENT AT A CONCENTRATION OF 1% OR MORE (0.01% FOR SPECIAL HAZARDOUS SUBSTANCES): None known.

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): None known.

