



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

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"SURLYN" RESIN ALL IN SYNONYM LIST SUR001
SUR001 Revised 31-JAN-2006

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

"SURLYN" is a registered trademark of DuPont.

Tradenames and Synonyms

"SURLYN" A1001, AD1061, AD1069, AD1092,
"SURLYN" AD8172, AD8206, AD8404-1, AD8414-1,
"SURLYN" AD8422-2, AD8422-3, AD8422-5, AD8422-6,
"SURLYN" AD8460, AD8463, AD8467, AD8471, AD8537,
"SURLYN" AD8542, AD8552, AD8570, AD8573, AD8578,
"SURLYN" AE1006, AE1006-1, AE1011, AE1016, AE1018,
"SURLYN" AE1034-1, AE1034-2,
"SURLYN" AE4500
"SURLYN" AS-7, AS-8,
"SURLYN" C1028,
"SURLYN" CFM, CFM-2, CFM-T,
"SURLYN" DEV-106, DM-1,
"SURLYN" E187SB, FCF, FW-4, F1605, HP2000,
"SURLYN" HT2010, HT2010LM,
"SURLYN" LS410, LS410SB, LS414,
"SURLYN" NC1000, NC2000, NC3000
"SURLYN" NWL, PC-100,
"SURLYN" PC-150, PC-350, PC-450PF, PC-2000,
"SURLYN" SEP1197-1,
"SURLYN" SPM-1, 1555, 1601,
"SURLYN" 1601-2, 1601-2HB, 1601-2J, 1601-2LM, 1601ACA,
"SURLYN" 1601B, 1601B-2, 1601LM, 1601LSB,
"SURLYN" 1605, 1605SBR, 1605SBRC, 1605SBRLM
"SURLYN" 1605SBR-E,
"SURLYN" 1707, 1707-2, 1707LM, 1709,
"SURLYN" 1802, 1856, 2601, 2601B,
"SURLYN" 6120, 6320, 6910,
"SURLYN" 8020, 8140, 8140-1, 8150, 8172,
"SURLYN" 8220, 8240, 8527, 8528, 8528P,
"SURLYN" 8550, 8610, 8660, 8660P, 8670,
"SURLYN" 8920, 8920J, 8920LM, 8920LP,
"SURLYN" 8920P, 8940, 8940DC, 8940J, 8940P,
"SURLYN" 8941, 8941EB, 8941P, 8942PT, 8945,

#

Company Identification

(CHEMICAL PRODUCT/COMPANY IDENTIFICATION - Continued)

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 SODIUM OR MAGNESIUM SALTS		>99

HAZARDS IDENTIFICATION

Potential Health Effects

Before using "SURLYN" Resins, read the bulletin 'Safety in Handling and Use of "SURLYN" Packaging Resins'.

No information available for these "SURLYN" Resins or for the ethylene copolymer partial metal salts. Based on similarity to other polymers, these "SURLYN" resins are predicted to have low toxicity.

INGESTION: Not a probable route of exposure. Toxicity is predicted to be low for all types but feeding tests have been conducted only on two sodium ionomers. No pathologic changes in any organ were seen in 90 day feeding tests with rats and dogs.

SKIN: No data are available. However, based on experience with handling these polymers, no unusual dermatitis problem is expected from routine handling. Molten polymer contacting the skin will cause thermal burns.

EYE: Mechanical irritation only.

INHALATION: Polymer is not respirable as sold. During melt processing, fumes irritating to the eyes, nose and throat may be evolved. Exposure may result in redness, itching and tearing of the eyes and soreness in the nose and throat together with coughing.

(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.

FIRST AID MEASURES

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.

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 or conveying pellets. Grounding of equipment is recommended.

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

Extinguishing Media

Water, Foam, Dry Chemical, CO2.

(FIRE FIGHTING MEASURES - Continued)

Fire Fighting Instructions

Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus (SCBA) and full protective equipment.

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 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.

VENTILATION When hot processing this material, use local and/or general exhaust ventilation to control the concentration of vapors and fumes below exposure limits.

In cutting or grinding operations with this material, use local exhaust to control the concentration of dust below exposure limits.

Personal Protective Equipment

EYE/FACE PROTECTION

(EXPOSURE CONTROLS/PERSONAL PROTECTION - Continued)

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. 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 known, 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" RESIN ALL IN SYNONYM LIST SUR001
PEL (OSHA) : Particulates (Not Otherwise Regulated)
15 mg/m³, 8 Hr. TWA, total dust
5 mg/m³, 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 : NA

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Conditions to Avoid

Temperatures above 325 C (617 F) .

(STABILITY AND REACTIVITY - Continued)

Incompatibility with Other Materials

Incompatible or can react with oxidizing agents.

Decomposition

Decomposes with heat.

Decomposition temperature: Decomposition is a function of both processing temperature and time at that temperature. Decomposition can occur below the recommended processing temperature limit. Above 325 degrees C, thermal decomposition of the resin becomes rapid.

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

Polymerization

Polymerization will not occur.

ECOLOGICAL INFORMATION

Ecotoxicological Information

AQUATIC TOXICITY:

No information is available. Do not discharge to streams, ponds, lakes or sewers.

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/IMO/IATA
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.

OTHER INFORMATION

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.

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

(Continued)

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