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DuPont
Material Safety Data Sheet

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"SURLYN" IONOMER RESIN ALL IN SYNONYM LIST SUR002
SUR002 Revised 27-JUL-2005

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

"SURLYN" is a registered trademark of DuPont.

Tradenames and Synonyms

"SURLYN" AD1078,
"SURLYN" AD1082-1, AD1082-2,
"SURLYN" AD8110SB, AD8112, AD8134SB, AD8137SBR,
"SURLYN" AD8281SB, AD8396-2,
"SURLYN" AD8427-1, AD8458, AD8464-1, AD8464-2,
"SURLYN" AD8464-3,
"SURLYN" AD8469, AD8470, AD8514, AD8541,
"SURLYN" AD8545, AD8547, AD8563, AD8569, AD8575, AD8579,
"SURLYN" AE1005-1, AE1005-2,
"SURLYN" AE1007, AE1007-1,
"SURLYN" AE1010-1, AE1010-2,
"SURLYN" BR1650, BR1702, BR8554,
"SURLYN" E185SB, EL1-E, IP-05,
"SURLYN" LS420, LS424, LS426, LTAD8111,
"SURLYN" PG1000, PK101,
"SURLYN" RX1652-1, RX3739, RX3739-1, SPF-1, SPF-2,
"SURLYN" TP1, WP1, 1554P, 1557, 1650, 1650B, 1650-E,
"SURLYN" 1650SB, 1650SB-V,
"SURLYN" 1652, 1652-1, 1652-E, 1652-1HS, 1652R, 1652R-1,
"SURLYN" 1652SB, 1652SB-CT, 1652SB-1, 1652SBR, 1652SR,
"SURLYN" 1652SB-E, 1652SR-E,
"SURLYN" 1702, 1702-1, 1702HM, 1702LM, 1702SBR,
"SURLYN" 1702SBR-1, 1705, 1705-1, 1706, 1706B, 1706-E, #
"SURLYN" 1801, 1825, 1855, 1857,
"SURLYN" 8110SB-V, 8396-2,
"SURLYN" 9010, 9120, 9150, 9220, 9450, 9455,
"SURLYN" 9520, 9520P, 9520W,
"SURLYN" 9533, 9650, 9650-S, 9720, 9721, 9722, 9730,
"SURLYN" 9910, 9910-E, 9910J, 9910BS, 9945, 9950,
"SURLYN" 9970, 9970FB, 9970P, 9975,

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 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.

HAZARDS IDENTIFICATION

Potential Health Effects

ADDITIONAL 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 copolymer partial metal salt. Based on its similarity to other polymers, this "SURLYN" resin is predicted to have low toxicity.

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.

(FIRST AID MEASURES - Continued)

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

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

Fire and Explosion Hazards:

The solid polymer can be combusted only with difficulty.

Extinguishing Media

Water, Foam, Dry Chemical, CO2.

Fire Fighting Instructions

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

Use self-contained breathing apparatus if exposed to fumes.

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

Recover undamaged and minimally contaminated material for reuse and reclamation.

Sweep up to avoid slipping hazard.

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

VENTILATION: Local 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 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" IONOMER RESIN ALL IN SYNONYM LIST SUR002
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 or pigmented
Specific Gravity	: NA

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

Polymerization

Polymerization will not occur.

ECOLOGICAL INFORMATION

Ecotoxicological Information

AQUATIC TOXICITY:

No information is available. Toxicity is expected to be low based on insolubility in water.

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.

