Uline Inc.

LLDPE/HDPE Polyethylene Cast Wrap

Manufacturer MSDS Number: 5640

SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name:LLDPE/HDPE Polyethylene Cast Wrap

Manufacturer MSDS Revision Date:
January 1, 2004

Supersedes: July 25, 2001

Distributor Name: Uline, Inc.
Distributor Address: 2200 S. Lakeside Drive
Waukegan, IL 60085
Distributor Telephone: 1-800-295-5510

General Use:

Application and Use: Fabrication of plastic film and molded products, and in the production of plastics additive concentrates.

REGULATORY CLASSIFICATION:

WHMIS Information: Not a controlled product.

TDG Information (Rail/Road): Not Regulated in Canada.

Canadian Environmental Protection Act (CEPA): All components of this product are either on the Domestic Substances List (DSL) or exempt.

Product Codes:

S-1524, S-1524S, S-2193, S-2193S, S-2204, S-2204S, S-3907, S-3907S, S-6667, S-667S, s-668, S-668S, S-8143, S-8143S, S-8144, S-8144S

SECTION 2 : COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Name	**CAS#**		
Polyethylene homopolymer grades	9002-88-4		

Chemical Name	**CAS#**		
Ethylene/butene copolymer grades	25087-34-7		

Chemical Name	**CAS#**		
Ethylene/hexene copolymer grades	25213-02-9		

Composition/Information:

NOTES:
Polymer CAS Numbers:
For polyethylene homopolymer grades: 9002-88-4
For ethylene/butene copolymer grades: 25087-34-7
For ethylene/hexene copolymer grades: 25213-02-9

REGULATED COMPONENTS: Not a controlled product in accordance with sub-paragraph 13(a) (i) to (iv) or paragraph 14(a) of the Hazardous Products Act.

SECTION 3 : HAZARDS IDENTIFICATION

Applies to All Ingredients:

Potential Health Effects:

Eye Contact:

Particles may scratch eye surfaces or cause mechanical irritation.

Skin Contact:

Negligible hazard at normal temperatures (up to 38 deg C). Exposure to hot material may cause thermal burns.

Inhalation:

Negligible hazard at normal temperatures (up to 38 deg C). Elevated temperatures or mechanical action may form vapours, mists or fumes which may be irritating to the eyes, nose, throat and lungs.

Ingestion:

Minimal toxicity.

OCCUPATIONAL EXPOSURE LIMIT:
ACGIH RECOMMENDS: A TWA of 10 mg/m3 for Inhalable particulate (total dust) and a TWA of 3 mg/m3 for Respirable particulate (total dust) for Particulates (Insoluble) Not Otherwise Classified (PNOC).
Local regulated limits may vary.

SECTION 4 : FIRST AID MEASURES

Eye Contact:

This material is an inert solid. If in eye, remove as one would any foreign object.

Skin Contact:

For hot material, immediately immerse in or flush the affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt medical attention. No attempt should be made to remove material from skin or to remove contaminated clothing, as the damaged flesh may easily be torn.

Inhalation:

In case of adverse exposure to vapours, mists and/or fumes formed at elevated temperatures, immediately remove the affected victim from exposure. Administer artificial respiration if breathing has stopped. Keep at rest. Call for prompt medical attention.

Ingestion:

First aid is normally not required.

SECTION 5 : FIRE FIGHTING MEASURES

Fire:

GENERAL HAZARDS:
Solid material; may burn at or above the flash point and airborne dust may explode if ignited.
Decomposes; flammable/toxic gases will form at elevated temperatures (thermal decomposition).
Toxic gases will form upon combustion.
Static Discharge; material can accumulate static charges which can cause an incendiary electrical discharge.

Flash Point:

343 deg C (Estimated Minimum)

Flash Point Method:

ASTM E136

Auto Ignition Temperature:

343 deg C (Estimated Minimum)

Hazardous Combustion Byproducts:

Under Oxygen lean conditions, Carbon Monoxide (CO) and irritating smoke may be produced.

Fire Fighting Instructions:

Use water spray to cool fire exposed surfaces, protect personnel, and extinguish the fire.
Respiratory and eye protection required for fire fighting personnel.
A self-contained breathing apparatus (SCBA) is recommended for indoor fires and any significant outdoor fires. For small outdoor fires, which may easily be extinguished with a portable fire extinguisher, use of an SCBA is optional.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Spill Cleanup Measures:

Consult an expert on the disposal of recovered material. Ensure disposal in compliance with government requirements and ensure conformity to local disposal regulations. Notify the appropriate authorities immediately. Take all additional action necessary to prevent and remedy the adverse effects of the spill.

Land Spill:

Recover spilled material and place in suitable containers for recycle or disposal. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

Water Spill:

Prevent additional discharge of material. If possible to do so without hazard. Attempt to contain floating material.
Skim from surface.
Recover the spilled material and place in suitable containers for recycle or disposal.

SECTION 7 : HANDLING and STORAGE

Handling:

Keep container closed. Handle and open containers with care.
DO NOT handle or store near an open flame, heat, or other sources of ignition.
Protect material from direct sunlight.
Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper grounding procedures.

Storage:

Store in a cool, well ventilated place away from incompatible materials.

SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Local exhaust ventilation of equipment may be needed to control exposures to dusts and/or fumes below the recommended occupational exposure limits.

Personal Protective Equipment
Routine Handling:

PERSONAL PROTECTION:
The selection of personal protective equipment varies depending upon conditions of use.
For open systems at ambient temperature (-18 to 38 deg C) where contact is likely, wear safety glasses with side shields.
Where contact may occur with hot material, wear thermal resistant gloves, arm protection, and a face shield.

Exposure Limits:

OCCUPATIONAL EXPOSURE LIMIT:
ACGIH RECOMMENDS: A TWA of 10 mg/m3 for Inhalable particulate (total dust) and a TWA of 3 mg/m3 for Respirable particulate (total dust) for Particulates (Isoluble) Not Otherwise Classified (PNOC).
Local regulated limits may vary.

ELECTROSTATIC ACCUMULATION HAZARD: Yes, use proper grounding procedure.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Physical State/Appearance:

Opaque pellets, granules or powder.

Color:

White

Odor:

Odorless

Physical State:

Solid

pH:

Not applicable.

Vapor Pressure:

Not Applicable

Boiling Point:

Not applicable

Freezing Point:

HDPE: 265 to 280 deg F. (129 to 137.5 deg C)
LLDPE: 240 to 265 deg F. (115 to 129 deg C)

Melting Point:

HDPE: 265 to 280 deg F. (129 to 137.5 deg C)
LLDPE: 240 to 265 deg F. (115 to 129 deg C)

Solubility:

In Water: Insoluble

Specific Gravity:

0.91 - 0.970

Flashpoint:

343 deg C (Estimated Minimum)

Auto Ignition Temp:

343 deg C (Estimated Minimum)

SECTION 10 : STABILITY AND REACTIVITY

Chemical Stability:

GENERAL: This product is stable.

Conditions to Avoid:

Fluorine
Strong Oxidizing agents

Incompatibilities with Other Materials:

MATERIALS TO AVOID:
Fluorine
Strong Oxidizing agents

Hazardous Polymerization:

GENERAL: Hazardous polymerization will not occur.

Hazardous Decomposition Products:

Flammable Hydrocarbons

SECTION 11 : TOXICOLOGICAL INFORMATION

SECTION 12 : ECOLOGICAL INFORMATION

SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal:

Consult an expert on the disposal of recovered material. Ensure disposal in compliance with government requirements and ensure conformity to local disposal regulations. Notify the appropriate authorities immediately. Take all additional action necessary to prevent and remedy the adverse effects of the spill.

SECTION 14 : TRANSPORT INFORMATION

Canadian TDG: (Rail/Road): Not Regulated in Canada.

SECTION 15 : REGULATORY INFORMATION

Applies to all ingredients:

Regulatory Paragraph:

REGULATED COMPONENTS: Not a controlled product in accordance with sub-paragraph 13(a) (i) to (iv) or paragraph 14(a) of the Hazardous Products Act.

Canada WHMIS:

WHMIS Information: Not a controlled product.

Canadian Environmental Protection Act (CEPA): All components of this product are either on the Domestic Substances List (DSL) or exempt.

SECTION 16 : ADDITIONAL INFORMATION

Label Precautions:

SPECIAL PRECAUTIONS: Should significant vapors/fumes be generated during thermal processing of this product, it is recommended that work stations be monitored for the presence of thermal degradation by-products which may evolve at elevated temperatures (for example, formaldehyde and acrolein). Processors of this product should assure that adequate ventilation or other controls are used to control exposure.

It is recommended that the current ACGIH-TLVs for thermal degradation by-products be observed. Contact your ExxonMobil Representative for further information.

MSDS Revision Date:

January 1, 2004
Supersedes: July 25, 2001

REVISION SUMMARY: Since July 25, 2001 this MSDS has been revised in Section(s): 3

MSDS Author:

Prepared By: Polymers Group
(416) 968-4751

Disclaimer:

The information contained herein relates only to this product or material and may not be valid when used in combination with any other product or material or in any process. If the product is not to be used for a purpose or under conditions which are normal or reasonably foreseeable, this information can not be relied upon as complete or applicable. For greater certainty, uses other than those described in "Application and Use" of Section 1 must be reviewed with the supplier. The information contained herein is based on information available at the indicated date of preparation.

National Fire Protection Association standards NFPA 654 and 68 indicate possible explosion hazard of dust particles. Conform accordingly. Avoid accumulation of dust or dust clouds; operate handling and storage systems leak free, practice good housekeeping.
Keep from sources of ignition. Do not store near heat, flame, or strong oxidants. Assure proper electrical grounding of all handling equipment.

For more information see "Guide for Handling and Storage of ESCORENE Polyethylene Resins."

Product may also contain varying levels of additives, such as slip and antiblocking agents (talc or silica), antioxidants, stabilizers, and corrosion inhibitors. Certain grades may contain cristobalite, a form of crystalline silica, as an additive that is encapsulated in the polymer. Inhaled crystalline silica in an occupational environment has been classified as a Group 1 human carcinogen by the International Agency for Research on Cancer. However, the original manufacturer has assessed the potential for release of silica to the air when this polymer is handled and has determined that silica encapsulated in this polymer is not expected to pose a health hazard when processed under normal conditions of use.

Reference: HDHC-K-20313