

Equistar Chemicals, LP 1221 McKinney, Sulte 1600 HOUSTON, TX 77010 7136527300

08/02/2001

FLAMBEAU PRODUCTS CORP 15981 VALPLAST RD P.O. Box 97 MIDDLEFIELD, OH 44062 USA MOH

42030\$

Dear Customer:

Attached is the current safety data sheet for the following Lyondell or Equistar product(s) purchased or requested by your company.

Material Name
PETROTHENE PP35FU01, BULK

This safety data sheet provides important health and safety information; we suggest that you review this document prior to handling the product. For this document to be an effective means of hazard communication, it must be made available to all those who handle and are responsible for operations involving this product. Risk associated with the hazards identified in the safety data sheet may be reduced or avoided if employees and customers are informed, remain alert to their possible occurrence, and adhere to safe work practices.

We recommend that you consult your occupational health and safety specialist to insure that methods used in the handling, storage, disposal, and reporting of these products will be adequate and in compliance with applicable laws and regulations. Information contained herein should not be used for specification purposes.

This safety data sheet has been prepared in accordance with the International Labour Organization sanctioned American National Standards Institute guidelines for Material Safety Data Sheet preparation. For customers within the United States of America, Sections 2 and 15 of this document may contain Supplier Notification information to comply with Section 313 of SARA Title III (40 CFR Part 327.45).

Thank you for your interest in our products, if additional health and safety information is required, please call the Lyondell/Equistar Product Safety office at (800) 700-0946 or fax (713) 951-1574.

Sincerely, Lyondell Chemical Company Equistar Chemicals, LP Product Safety

Attachment

40-255-7382

Equistar Chemicals, LP
One Houston Center, Suite 1600
1221 McKinney Street
P.O. Box 2563
Houston, Texas 77252-2583
Phone: 713,652,7200

FLAMBEAU PRODUCTS CORP

MOH

P.O. Box: 97 15981 VALPLAST RD MIDDLEFIELD, OH 44062 44082 USA 08/02/2001

Dear Customer:

Thank you for your interest in Equistar Chemicals, LP products. Attached is a current Material Safety Data Sheet (MSDS) for the following product(s) purchased or requested by your company.

EQUISTAR Product Name Polypropylene Copolymer  Material Name PETROTHENE PP35FU01. BULK MSDS # 00000000150

Where applicable, Equistar has developed MSDS(s) to represent a group of similar products. MSDS distributions will be based on the products' chemical name with subsequent distributions made on a twelve-month cycle to be initiated on January 1 of each year. This MSDS is representative of products characterized by the description, 1-propers, polymer with ethens and chemical abstract number (CAS#) 9010-79-1. You will not receive another MSDS for other product grades characterized by the same chemical name and CAS# until an order is placed in the following MSDS distribution cycle.

This MSDS has been prepared in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200). The MSDS provides important health and safety information. We suggest that you review this document prior to handling the product. For the MSDS to be an effective means of hazard communication, it must be made available to all those who handle and are responsible for operations involving this product.

Information contained herein should not be used for specification purposes. We recommend that you consult your occupational health and safety specialist to insure that methods used in the handling, storage and reporting of these products will be adequate and in compliance with applicable laws and regulations.

If additional health and safety information is required, please call the Equistar Product Safety office at (800) 700-0946 or FAX (713) 951-1574.

Sincerely. Equistar Chemicals, LP Product Safety

Attachment



HMIS (USA)

Health Hazard 0
Fire Hazard 1
Reactivity 0

# EQUISTAR

MSDS No.: Validation Date: 000000000150 04/05/2000

Validation Date: 04/05/ Version No: 1.57

# Material Safety Data Sheet Polypropylene Copolymer

SECTION 1: IDENTIFICATION:

**Product Name:** 

Polypropylene Copolymer

Chemical Name:

1-Propene, polymer with ethene

**CAS Number:** 

9010-79-1

Synonyms:

Polypropylene copolymer; PP copolymer; PP.

Chemical Family:

Olefinic copolymer

Manufacturer:

Equistar Chemicals, LP

One Houston Center, Suite 1600

1221 McKinney St.

P.O. Box 2583 Houston, Texas 77252-2583 Telephone Numbers:

Emergency:

CHEMTREC 800 424 9300

Equistar 800 245 4532

Product Safety:

Phone 800 700 0946 FAX 713 951 1574

#### SECTION 2: COMPOSITION:

						<u>% Concentration</u>			
Company Name CAS No.	OSHA	OSHA STEL/C	ACGIH TLV	ACGIH STEUC	Carcinogenic Listing*	Avg.	Min.	M	
Component Name: CAS No. 1-Propene, Polymer 9010-79-1	PEL	N/L	N/L	N/L	NL		98.0	100.0	
with Ethene Proprietary Additives	NL	NL	N/L	N/L	NL		0.0	2.0	

\*1 = OSHA 2 = IARC 3 = NTP 4 = Others N/L = Not Listed

See Section 11 for more information

#### SECTION 3: HAZARD IDENTIFICATION:

Emergency Overview

This material is NOT HAZARDOUS by OSHA Hazard Communication definition.

Signal Word:

CAUTION!

Hazards identification:

Dust may form explosive mixtures with air. Molten polymer may cause thermal burns. Irritating

fumes may be produced at process temperatures.

Physical State:

Solid

Color:

Translucent to white.

Odor:

Faint, mild hydrocarbon odor.

Odour Threshold:

No value available.

Potential Health Effects

Routes of Exposure:

Eye Ingestion Skin

Signs and Symptoms of

Acute Exposure:

Hot material may cause thermal burns. At process temperatures, irritating furnes may cause soreness in the nose and throat; coughing may result. Mechanical irritation is possible.

## Material Safety Data Sheet Polypropylene Copolymer

MSDS No.: Validation Date: Version No:

000000000150 04/05/2000 1.57

1-Propene, Polymer with Ethene

Hot material may cause thermal burns. At process temperatures, irritating fumes may cause soreness in the nose and throat: coughing may result. Mechanical irritation is possible.

Skin:

Molten polymer may cause thermal burns.

Inhalation:

At process temperatures irritating tumes may be produced. Inhalation of process tumes and vapors may cause soreness in the nose and throat and coughing. "Nuisance dust" such as polymer dust typically exhibit no significant health effect when they are reasonably controlled. Exposure to high

concentrations of dust may cause slight irritation by mechanical action.

Eye:

Mechanical irritation is possible.

ingestion:

ingestion is unlikely in normal industrial use.

Chronic Health Effects:

No known chronic health effects.

1-Propene, Polymer

with Ethene

No known chronic health effects.

Conditions Aggravated

by Exposure:

No known conditions are aggravated by this material

## SECTION 4: FIRST AID MEASURES:

Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. For specific information refer to the Emergency Overview in Section 3 of this MSDS.

inhalation:

If symptoms are experienced, move victim to Iresh air. Obtain medical attention if symptoms persist.

Eye:

Wash eyes with clean low-pressure water. If irritation persists, seek medical advice.

Skin:

If molten material contacts the skin, immediately flush with large amounts of water to cool the affected tissue and polymer. Do not attempt to peel polymer from skin. Get medical attention

immediately.

ingestion:

Adverse health effects due to ingestion are not anticipated. If gastric irritation or discomfort persists.

seek medical advice.

#### NFPA: Health Q; Fire 1; Reactivity Q; Others: SECTION 5: FIRE FIGHTING MEASURES:

Flammability

Classification;

Not Classified. Polymer will burn but does not ignite readily.

Flash Point / Method:

**Auto-ignition** 

Temperature:

570 °C (1,050 °F)

Flammable Limits:

LOWER:

Not applicable.

UPPER:

Not applicable.

**Hazardous Combustion** 

Products:

Carbon monoxide, olefinic and paraffinic compounds, trace amounts of organic acids, ketones,

aldehydes and alcohols may be formed.

Special Conditions to

Avoid:

Dust may form explosive mixtures with air.

Extinguishing Media:

LARGE FIRES: Use dry chemicals, CO2, or water spray

## **Material Safety Data Sheet** Polypropylene Copolymer

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Version No: 1.57

Fire Fighting Instructions:

Protective Equipment/Clothing: Wear a NIOSH approved positive pressure self-contained

breathing apparatus and firefighter turnout gear.

Instructions: Use flooding quantities of water until well after fire is out.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES:

Release Response:

Pick up and retain for recycle or disposal. Do not flush spilled material to the sewer or the

environment.

Reportable Quantities:

See Section 15: Regulatory Information.

### SECTION 7: HANDLING AND STORAGE:

Handilng:

Keep material off walking surfaces, it may create a slipping hazard. Polymer dust may form explosive mixtures with air. Avoid accumulation of dust in enclosed space. Use in well-ventilated area. Ground and bond equipment to prevent electrostatic charge when transferring product.

Control spilled material to prevent runoff to the sewers and the environment.

Storage:

Keep container dry. Store away from excessive heat and away from strong oxidizing agents.

Keep container closed to prevent contamination.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION:

**Engineering Controls:** 

If user operations generate dust or furnes, ventillate area to prevent accumulation.

Personal Protection:

Inhalation: Use appropriate respiratory protection where atmosphere exceeds recommended limits. Total

Dust (PNOC): ACGIH 10 mg/M3, OSHA 15 mg/M3. Respirable Dust (PNOC) ACGIH 3 mg/M3,

OSHA 5 mg/M3.

Skin: Protective clothing such as long sleeves or a lab coat should be worn. When handling heated

materials, also be sure to use heat-resistant gloves, boots and face protection,

Eve: Use safety glasses.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES:

**Bolling Point:** 

Not applicable.

pH:

Not applicable.

Vapor Pressure:

Viscosity:

Not applicable.

Specific Gravity:

Solid/Liquid:

0.92 - 0.98 (Water = 1)

Water Solubility:

insoluble.

Vapor:

Not applicable.

Octanol/Water Partition

Coefficient in Kow:

Specific data not available.

Melting/ Freezing Point:

162 °C (325 °F)

**Evaporation Rate:** 

Not applicable.

### SECTION 10: STABILITY AND REACTIVITY:

Chemical Stability:

The product is stable.

Conditions to Avoid:

Avoid contact with strong oxidizers, excessive heat, sparks or open flame.

# Material Safety Data Sheet Polypropylene Copolymer

MSDS No.: Validation Date: Version No:

Proper Shipping

Name:

Polypropylene, ot liquid

DOT Hazard Class:

Not regulated.

UNINA ID:

Not Regulated.

Marine Poliutant:

No

Packing Group:

Not applicable.

**NAER Guidebook:** 

Not Regulated.

Labels:

Not regulated.

**DOT Status:** 

Not regulated.

#### SECTION 15: REGULATORY INFORMATION:

TSCA:

All components of this product are listed on the TSCA 8(b) inventory. If identified comp this product are listed under the TSCA 12(b) Export Notification rule, they will be listed

TSCA 12(b) Component

SARA - Section 313

**Emissions Reporting:** 

This product contains no SARA 313 "toxic chemicals" above threshold levels.

Component

Reporting Threshold

SARA - Section 311/312:

No components present in this product are subject to the reporting requirements of this

CERCLA Hazardous
Substances and their

ReportableQuantities:

Component

Reportable Quantity

#### California Prop. 65:

Proposition 65 requires manufacturers or distributors of consumer products into the State of California to provide a wastatement if the product contains ingredients for which the State has found to cause cancer, birth defects or other representation. If this product contains an ingredient listed by the State of California to cause cancer or reproductive toxicity it tilisted below.

#### SECTION 16: OTHER INFORMATION

DISCLAIMER OF LIABILITY: CAUTION DO NOT USE EQUISTAR MATERIALS IN APPLICATIONS INVOLVING IMPLANTATION WITHIN THE BODY: DIRECT OR INDIRECT CONTACT WITH THE BL PATHWAY; CONTACT WITH BONE, TISSUE, TISSUE FLUID, OR BLOOD: OR PROLO CONTACT WITH MUCOUS MEMBRANES. EQUISTAR MATERIALS ARE NOT DESIGN MANUFACTURED FOR USE IN IMPLANTATION IN THE HUMAN BODY OR IN CONTAINTERNAL BODY FLUIDS OR TISSUES. EQUISTAR WILL NOT PROVIDE TO CUSTON MAKING DEVICES FOR SUCH APPLICATIONS ANY NOTICE, CERTIFICATION OR INFORMATION NECESSARY FOR SUCH MEDICAL DEVICE USE REQUIRED BY FDA HEGULATION OR ANY OTHER STATUTE. EQUISTAR MAKES NO REPRESENTATION PROMISE, EXPRESS WARRANTY OR IMPLIED WARRANTY CONCERNING THE SUIT OF THESE MATERIALS FOR USE IN IMPLANTATION IN THE HUMAN BODY OR IN COWITH INTERNAL BODY TISSUES OR FLUIDS.

The information on this MSDS was obtained from sources which we believe are reliable. If the information is provided without any warranty, expressed or implied, regarding its correspond information presented and conclusions drawn herein are from sources other than did data on the substance itself. The conditions or methods of handling, storage, use and displacements.

## Material Safety Data Sheet Polypropylene Copolymer

MSDS No.: Validation Date: Version No: 000000000150 04/05/2000

Proper Shipping

Name:

Polypropylene, ot liquid

DOT Hazard Class:

Not regulated.

UNINA ID:

Not Regulated.

. . .

Marine Pollutant:

No

Packing Group:

Not applicable.

**NAER Guidebook:** 

Not Regulated.

Labels:

Not regulated.

**DOT Status:** 

Not regulated.

#### SECTION 15: REGULATORY INFORMATION:

TSCA:

All components of this product are listed on the TSCA 8(b) inventory. If identified components of this product are listed under the TSCA 12(b) Export Notification rule, they will be listed below.

TSCA 12(b) Component

SARA - Section 313

**Emissions Reporting:** 

This product contains no SARA 313 "toxic chemicals" above threshold levels.

Component

Reporting Threshold

SARA - Section 311/312:

No components present in this product are subject to the reporting requirements of this statute.

CERCLA Hazerdous
Substances and their

ReportableQuantities:

Component

Reportable Quantity

#### California Prop. 65:

Proposition 65 requires manufacturers or distributors of consumer products into the State of California to provide a warning statement if the product contains ingredients for which the State has found to cause cancer, birth defects or other reproductive harm. If this product contains an ingredient listed by the State of California to cause cancer or reproductive toxicity it will be listed below.

#### **SECTION 18: OTHER INFORMATION**

DISCLAIMER OF LIABILITY: CAUTION DO NOT USE EQUISTAR MATERIALS IN APPLICATIONS INVOLVING IMPLANTATION WITHIN THE BODY: DIRECT OR INDIRECT CONTACT WITH THE BLOOD PATHWAY; CONTACT WITH BONE, TISSUE, TISSUE FLUID, OR BLOOD: OR PROLONGED CONTACT WITH MUCOUS MEMBRANES. EQUISTAR MATERIALS ARE NOT DESIGNED OR MANUFACTURED FOR USE IN IMPLANTATION IN THE HUMAN BODY OR IN CONTACT WITH INTERNAL BODY FLUIDS OR TISSUES, EQUISTAR WILL NOT PROVIDE TO CUSTOMERS MAKING DEVICES FOR SUCH APPLICATIONS ANY NOTICE, CERTIFICATION OR INFORMATION NECESSARY FOR SUCH MEDICAL DEVICE USE REQUIRED BY FDA REGULATION OR ANY OTHER STATUTE. EQUISTAR MAKES NO REPRESENTATION, PROMISE, EXPRESS WARRANTY OR IMPLIED WARRANTY CONCERNING THE SUITABILITY OF THESE MATERIALS FOR USE IN IMPLANTATION IN THE HUMAN BODY OR IN CONTACT WITH INTERNAL BODY TISSUES OR FLUIDS.

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## **Material Safety Data Sheet** Polypropylene Copolymer

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Version No:

1.57

we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

Latest Revision(s):

Conversion to SAP template.

END OF DOCUMENT