



MATERIAL SAFETY DATA SHEET

LLD100929

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Type: ETHYLENE POLYMER , 1-Butene

Manufacturer Information:

Chemical Resources, Inc.
20 Nassau Street
Suite 100A
Princeton, NJ 08542

Emergency Phone Numbers: Chemtrec 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Amount (Vol%)
ETHYLENE POLYMER, 1-Butene	25087-34-7	98

EXPOSURE GUIDELINES (SEE SECTION 15 FOR ADDITIONAL EXPOSURE LIMITS)

CAS No.	Governing Body	Exposure Limits
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3. HAZARDS IDENTIFICATION

- EMERGENCY OVERVIEW**

Caution! Low hazard for usual industrial or commercial handling. May cause respiratory tract irritation.

Hazards Ratings:

Key: 0 = least, 1 = slight, 2 = moderate, 3 = high, 4 = extreme

	<u>Health</u>	<u>Fire</u>	<u>Reactivity</u>	<u>PPI</u>
NFPA	1	1	0	
HMIS	0	1	0	

- POTENTIAL HEALTH EFFECTS**

- PRE-EXISTING MEDICAL CONDITIONS**

The following diseases or disorders may be aggravated by exposure to this product: respiratory system, skin,

- INHALATION**

At elevated temperatures may cause irritation to eyes and respiratory tract.

LC50 (mg/l): No data

LC50 (mg/m3): No data

LC50 (ppm): No data

- **SKIN**
Contact with heated product may cause thermal burns.

Draize Skin Score: No data out of 8.0

LD50 (mg/kg): No data

- **EYES**
Contact with product at elevated temperatures can result in thermal burns. Slightly irritating but does not injure eye tissue.
- **INGESTION**
No effects expected if product is ingested.

LD50 (g/kg): No data

4. FIRST AID MEASURES

- **INHALATION**
Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and continue to monitor. Get medical attention.
- **SKIN**
For hot product, 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 can be easily torn.
- **EYES**
For contact with molten product, flush immediately with plenty of cool water for at least 15 minutes. Get medical attention.
- **INGESTION**
First aid not normally required.

5. FIRE FIGHTING MEASURES

- **EXTINGUISHING MEDIA**
The following media may be used to extinguish a fire involving this material: Water spray; Carbon dioxide; Dry chemical;
- **FIRE FIGHTING INSTRUCTIONS**
The use of fresh air equipment such as Self Contained Breathing Apparatus (SCBA) or Supplied Air Respirators should be worn for fire fighting if exposure or potential exposure to products of combustion is expected. Wear structural fire fighting gear. Use water spray to cool fire exposed tanks and containers.

FLAMMABLE PROPERTIES

	Typical	Minimum	Maximum	Text Result	Units	Method
Flash Point				No data	F	N/A
Autoignition Temperature				No data	F	N/A
Lower Explosion Limit				No data	%	N/A
Upper Explosion Limit				No data	%	N/A

6. ACCIDENTAL RELEASE MEASURES

Vacuum or sweep up material and place in a disposal container. Forms smooth, slippery surfaces on floors, posing an accident risk. Clean up spills immediately, observing precautions in Protective Equipment section.

7. HANDLING AND STORAGE

- **HANDLING**

Avoid breathing vapors from heated material. Follow all MSDS/label precautions even after container is emptied because it may retain product residue.

- **STORAGE**

Store in a cool dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Consult With a Health and Safety Professional for Specific Selections

- **ENGINEERING CONTROLS**

Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. General dilution ventilation may assist with the reduction of air contaminant concentrations.

- **PERSONAL PROTECTION**

- **EYE PROTECTION**

Splash proof chemical goggles are recommended to protect against the splash of product. Full-face shield is recommended to protect against splash of hot product.

- **GLOVES or HAND PROTECTION**

Wear insulated impervious protective gear to protect against the splash of hot product.

- **RESPIRATORY PROTECTION**

Half-mask air purifying respirator with combination organic vapor and HEPA filter cartridges is acceptable for exposures to ten (10) times the exposure limit. Full-face air purifying respirator with combination organic vapor and HEPA filter cartridges is acceptable for exposures to fifty (50) times the exposure limit.

- **OTHER**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Property	Typical	Units	Text Result	Reference
Appearance		other	White pellets	
Boiling Point		F	No data	
Bulk Density		lb/gal	No data	
Melting Point		C	119-122 C	
Molecular Weight		g/mole	No data	
Octanol/Water Coefficient		other	No data	
pH		other	No data	
Specific Gravity		other	0.927 - 0.931	
Solubility In Water		wt %	Negligible	

Odor		other	Odorless	
Odor Threshold		other	No data	
Vapor Pressure		psia	Negligible	
Viscosity (F)		other	No data	
Viscosity (C)		other	No data	
% Volatile		wt %	No data	

10. STABILITY AND REACTIVITY

- **STABILITY**

Stable

- **CONDITIONS TO AVOID**

none known

- **INCOMPATIBILITY**

The following materials are incompatible with this product: Strong oxidizers such as chlorine, peroxides, chromates, nitric acid, perchlorates, concentrated oxygen, sodium hypochlorite, calcium hypochlorite and permanganates.

- **HAZARDOUS DECOMPOSITION PRODUCTS**

Combustion may produce carbon monoxide, carbon dioxide and other asphyxiants.

- **HAZARDOUS POLYMERIZATION**

Will not occur

11. ECOLOGICAL INFORMATION

No data available

12. DISPOSAL CONSIDERATIONS

Follow federal, state and local regulations. Contract to authorized disposal service.

13. TRANSPORT INFORMATION

<u>Governing Body</u>	<u>Mode</u>	<u>Proper Shipping Name</u>
DOT	Ground	Not Regulated

<u>Governing Body</u>	<u>Mode</u>	<u>Hazard Class</u>	<u>UN/NA No.</u>	<u>Label</u>
DOT	Ground	N/A	N/A	

14. REGULATORY INFORMATION

<u>Regulatory List</u>	<u>Component</u>	<u>CAS No.</u>
Inventory - Australia (AICS)	ETHYLENE POLYMER,1-Butene	25087-34-7
Inventory - Canada - Domestic Substances List	ETHYLENE POLYMER,1-Butene	25087-34-7
Inventory - China	ETHYLENE POLYMER,1-Butene	25087-34-7
Inventory - Japan - (ENCS)	ETHYLENE POLYMER,1-Butene	25087-34-7
Inventory - Korea - Existing and Evaluated	ETHYLENE POLYMER,1-Butene	25087-34-7
Inventory - Philippines Inventory (PICCS)	ETHYLENE POLYMER,1-Butene	25087-34-7
Inventory - TSCA - Sect. 8(b) Inventory	ETHYLENE POLYMER,1-Butene	25087-34-7

Title III Classifications Sections 311,312:

- Acute: **NO**
- Chronic: **NO**
- Fire: **NO**
- Reactivity: **NO**
- Sudden Release of Pressure: **NO**

15. OTHER INFORMATION

Follow all MSDS/label precautions even after container is emptied because it may retain product residue.

COMPONENT TOXICITY: Polypropylene has been tested in laboratory rats by subcutaneous implantation of discs or powder. Local sarcomas were induced at the site of implantation. No epidemiological studies or case reports suggest any serious chronic health hazards from long-term exposure to polypropylene decomposition products below the irritation level (IARC, 19, 128).