

# SAFETY DATA SHEET

# SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

**CAS Number:** 9004-17-1

Product Name: Polybutene 80 (PIB 80)

 Revision Date:
 Apr 13, 2018
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 Version:
 1.1
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Manufacturer's Name: Thames River Chemical Corp.

Address: 5230 Harvester Road Burlington, ON, CA, L7L 4X4

Emergency Phone: CHEMTREC (800) 424-9300

**Information Phone Number:** 905-681-5353 **Fax:** 905-681-5377

Product/Recommended Uses: For laboratory or industrial use only.

# **SECTION 2) HAZARDS IDENTIFICATION**

Classification

Not classified

**Pictograms** 

None

Signal Word

No signal word available.

**Precautionary Statements - General** 

No precautionary statement available.

**Precautionary Statements - Prevention** 

No precautionary statement available.

**Precautionary Statements - Response** 

No precautionary statement available.

**Precautionary Statements - Storage** 

No precautionary statement available.

**Precautionary Statements - Disposal** 

No precautionary statement available.

# **SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS**

CAS Chemical Name % By Weight

0009044-17-1 Butene, polymer with 2-methyl-1-propene 100%

# **SECTION 4) FIRST-AID MEASURES**

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#### Inhalation

Remove source of exposure or move person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

#### **Eve Contact**

Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes or until medical aid is available. If irritation occurs, cautiously rinse eyes with lukewarm, gently flowing water for 5 minutes, while holding the eyelids open.

Seek immediate medical advice.

#### **Skin Contact**

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Rinse/wash with lukewarm, gently flowing water and mild soap for 5 minutes or until product is removed. If skin irritation occurs or you feel unwell: Get medical advice/attention. Wash contaminated clothing before re-use or discard.

#### Ingestion

Rinse mouth. Do NOT induce vomiting. If vomiting occurs naturally, lie on your side, in the recovery position. Get medical advice/attention.

#### Most Important Symptoms and Effects, Both Acute and Delayed

No Data Available

#### Indication of Any Immediate Medical Attention and Special Treatment Needed

In case of burn skin, to minimize physical damage to the skin, do not remove the polybutene. Cover the injured area with appropriate burn gel.

# **SECTION 5) FIRE-FIGHTING MEASURES**

#### Suitable Extinguishing Media

Carbon dioxide (CO2), dry chemical powder, foam. Water spray.

#### **Unsuitable Extinguishing Media**

Do not use straight stream of water.

# Specific Hazards in Case of Fire

On combustion forms: Carbon monoxide. Carbon dioxide. May react with strong acids or strong oxidizing agents such as chlorates and peroxides.

Fire will produce irritating gases.

#### **Fire-fighting Procedures**

Isolate immediate hazard area and keep unauthorized personnel out. Move undamaged containers from immediate hazard area if it can be done safely.

# **Special Protective Actions**

Wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

# **SECTION 6) ACCIDENTAL RELEASE MEASURES**

# **Emergency Procedure**

Isolate hazard area and keep unauthorized personnel away. Stay uphill and/or upstream. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing. Ventilate closed spaces before entering.

# **Recommended Equipment**

Wear chemical protective clothing.

# **Personal Precautions**

Avoid breathing vapor or mist. Avoid contact with skin, eye or clothing.

# **Environmental Precautions**

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers. Dike far ahead of liquid spill for later disposal.

# Methods and Materials for Containment and Cleaning up

Absorb Liquids in vermiculite, dry sand, earth, or similar inert material and deposit in sealed containers for disposal.

# **SECTION 7) HANDLING AND STORAGE**

#### General

Wash hands after use. Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Use good personal hygiene practices. Eating, drinking and smoking in work areas is prohibited. Remove contaminated clothing and protective equipment before entering eating areas. Eyewash stations and showers should be available in areas where this material is used and stored All containers must be properly labelled.

#### **Ventilation Requirements**

Use only with adequate ventilation to control air contaminants to their exposure limits.

#### **Storage Room Requirements**

Store in dry, cool areas, out of direct sunlight and away from other sources of heat. Empty container retain residue and may be dangerous.

# SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Eye protection

Wear indirect-vent, impact and splash resistant goggles when working with liquids

#### **Skin Protection**

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory Protection**

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 should be followed. Check with respiratory protective equipment suppliers.

# **Appropriate Engineering Controls**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Chemical Name	CANsmg	CANsppm	CANtmg	CANtppm	OSHA STEL (mg/m3)	OSHA STEL (ppm)	OSHA TWA (mg/m3)	OSHA TWA (ppm)	OSHA Carcinogen	OSHA Tables (Z1, Z2, Z3)	OSHA Skin designation	ACGIH STEL (mg/m3)
No applicable chemical	-	-	-	-	-	-	-	-	-	-	-	-

Chemical Name	ACGIH STEL (ppm)	ACGIH TWA (mg/m3)	ACGIH TWA (ppm)	ACGIH TLV Basis	ACGIH Carcinogen	ACGIH Notations
No applicable chemical	-	-	-	-	-	-

### **SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES**

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#### **Physical and Chemical Properties**

Density 7.02 lb/gal Specific Gravity 0.84

**Appearance** clear, viscous liquid

odourless Odor Description Odor Threshold N/A

Hq none - does not yield hydrogen ions in solution

Melting/Freezing Point

Low Boiling Point N/A - decomposition begins before the boiling point is reached

High Boiling Point N/A

195°C (PIB 32) Flash Point

Vapor Pressure inconnu - très faible, non volatil Vapor Density pas de données disponibles

**Evaporation Rate** N/A - not volatile

Upper Explosion Level N/A Lower Explosion Level N/A Water Solubility negligible Coefficient Water/Oil N/A

Viscosity 22000 mm<sup>2</sup>/s (PIB 32)

# **SECTION 10) STABILITY AND REACTIVITY**

# Reactivity

May react with strong acids or strong oxidizing such as chlorates and peroxides.

### Stability

Stable under normal storage and handling conditions.

#### **Conditions to Avoid**

No additional information available.

# **Hazardous Reactions/Polymerization**

Hazardous polymerization will not occur.

# **Incompatible Materials**

Strong acids, oxidizing and reducing agents.

# **Hazardous Decomposition Products**

Heating this product to 260°C may cause rapid depolymerization with production of extremely flammable isobutene vapors. Thermal combustion may release carbon monoxide and carbon dioxide.

# **SECTION 11) TOXICOLOGICAL INFORMATION**

# Likely Route of Exposure

Inhalation, ingestion, skin absorption

#### **Acute Toxicity**

LD50 oral rat > 34 g/kg LD50 dermal rabbit > 10000 mg/kg LC50 inhalation rat (mg/l) > 17 g/m<sup>3</sup>

# **Aspiration Hazard**

No Data Available

# Carcinogenicity

No Data Available

# **Germ Cell Mutagenicity**

No Data Available

# **Reproductive Toxicity**

No Data Available

# Respiratory/Skin Sensitization

No Data Available

#### Serious Eye Damage/Irritation

No Data Available

#### Skin Corrosion/Irritation

No Data Available

# **Specific Target Organ Toxicity - Repeated Exposure**

No Data Available

# **Specific Target Organ Toxicity - Single Exposure**

No Data Available

# **SECTION 12) ECOLOGICAL INFORMATION**

#### **Toxicity**

LC50 fishes: > 1000 mg/l 96 hours (similar material) EC50 Daphnia: > 1000 mg/l 48 hours (similar material)

# **Mobility in Soil**

No Data Available

# **Bio-accumulative Potential**

No Data Available

# Persistence and Degradability

Product is not easily biodegradable.

# **Other Adverse Effects**

No Data Available

# **SECTION 13) DISPOSAL CONSIDERATIONS**

# **Waste Disposal**

Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with national, provincial and local laws.

# **SECTION 14) TRANSPORT INFORMATION**

# **Transport Canada Information**

UN number: Not Regulated

Hazard class: N/A

Proper shipping name: N/A Packaging group: N/A

#### **U.S. DOT Information**

UN number: Not Regulated

Hazard class: N/A

Proper shipping name: N/A Packaging group: N/A

# **SECTION 15) REGULATORY INFORMATION**

CAS	Chemical Name	% By Weight	Regulation List
0009044-17-1	Butene, polymer with 2- methyl-1-propene	100%	DSL,TSCA

# **SECTION 16) OTHER INFORMATION**

# Glossary

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG-Canadian Transportation of Dangerous Goods; CANsmg or CANsppm - Canadian Short Term Exposure Level in mg/L or in ppm; CANtmg or CANtppm - Canadian Time Weighted Average in mg/L or in ppm; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center(US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self Contained Breathing Apparatus; STEL-Short Term Exposure Limit; TCEQ Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

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# **DISCLAIMER**

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