

# MATERIAL SAFETY DATA SHEET

ExxonMobil Chemical Company  
A Division of Exxon Mobil Corporation

DATE PREPARED 12/21/04

EXXPRO(TM) ELASTOMER

MSDS NO. 00003951

## SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** EXXPRO(TM) ELASTOMER

**CHEMICAL NAME:**

Brominated olefin polymer 134737-24-9

**CHEMICAL FAMILY:**

Brominated olefin polymer

**PRODUCT DESCRIPTION:**

Slightly yellow to amber rubbery solid.  
See Notes Section for applicable grades.

**CONTACT ADDRESS:**

ExxonMobil Chemical Company,  
P.O. Box 3272, Houston, Texas 77253-3272

**EMERGENCY TELEPHONE NUMBER: (24 HOURS)**

CHEMTREC (800) 424-9300  
ExxonMobil Chemical Company (800) 726-2015

**NON EMERGENCY TELEPHONE NUMBERS: (8am-5pm M-F)**

FOR GENERAL PRODUCT INFO: (281) 870-6000

FOR HEALTH AND MED INFO: (281) 870-6884

## SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

This product is not hazardous as defined in 29 CFR1910.1200

## SECTION 3 HAZARDS IDENTIFICATION

### POTENTIAL HEALTH EFFECTS

**EYE CONTACT:**

Particulates may scratch eye surfaces/cause mechanical irritation.

**SKIN CONTACT:**

Frequent or prolonged contact may irritate.  
Exposure to hot material may cause thermal burns.

**INHALATION:**

Negligible hazard at ambient temperature (-18 to 38 Deg C; 0 to 100 Deg F)  
Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract.

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Vapors and/or aerosols which may be formed at elevated temperatures may cause systemic effects.

## **INGESTION:**

No hazard in normal industrial use.

## **SECTION 4 FIRST AID MEASURES**

### **EYE CONTACT:**

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

### **SKIN CONTACT:**

In case of frequent or prolonged contact, flush with large amounts of water, use soap if available.  
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.

### **INHALATION:**

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

### **INGESTION:**

First aid is normally not required.

## **SECTION 5 FIRE FIGHTING MEASURES**

**FLASH POINT:** > 482 Deg F. NOTE: Decomposes

**FLAMMABLE LIMITS:** NOTE: Not Applicable

**AUTOIGNITION TEMPERATURE:** NOTE: Not Applicable

### **GENERAL HAZARD:**

Solid material, may burn at or above the flashpoint, and airborne dust may explode if ignited .

If thermally decomposed, flammable/toxic gases may be released.

Toxic gases will form upon combustion.

Fire is accompanied by the evolution of a dense black smoke with an acrid odor. It may cause watery eyes (lachrimation).

### **FIRE FIGHTING:**

Use water spray to cool fire exposed surfaces and to protect personnel. Isolate "fuel" supply to fire.

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Extinguish the fire by cooling with water spray.  
Respiratory and eye protection required for fire fighting personnel.

## DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS:

Hydrogen Bromide (HBr) (Toxic); Under Oxygen lean conditions, Carbon Monoxide (CO) and irritating smoke may be produced.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### 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:

Recover the 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.

## SECTION 7 STORAGE AND HANDLING

### ELECTROSTATIC ACCUMULATION HAZARD:

Unknown, use proper bonding and/or grounding procedure.

### STORAGE TEMPERATURE, Deg F:

Ambient

### LOADING/UNLOADING TEMPERATURE, Deg F:

Ambient

### STORAGE TRANSPORT PRESSURE, mmHg:

Atmospheric

### LOADING/UNLOADING VISCOSITY, cst:

Not Applicable

### STORAGE AND HANDLING:

It is not known if this material is a static accumulator. Therefore, use proper bonding and/or grounding procedures.

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### EXPOSURE CONTROLS:

Local exhaust ventilation of process equipment may be needed to control

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particulates/vapors/fumes exposure to below the recommended exposure limit.  
See personal protection recommendations.

## PERSONAL PROTECTION:

For open systems where contact is likely, wear safety glasses with side shields.

Where contact may occur with hot materials, wear thermal resistant gloves, arm protection and a face shield.

Where overexposure by inhalation may occur and engineering, work practice or other means of exposure reduction are not adequate, approved respirators may be necessary.

## WORKPLACE EXPOSURE GUIDELINES

### OSHA REGULATION 29CFR1910.1000 REQUIRES THE FOLLOWING PERMISSIBLE EXPOSURE LIMITS:

5 mg/m<sup>3</sup> (respirable dust), and 15 mg/m<sup>3</sup> (total dust) based on the OSHA PEL for nuisance dust.

The recommended permissible exposure levels indicated above reflect the levels revised by OSHA in 1989 or in subsequent regulatory activity.

Although the 1989 levels have since been vacated by the 11th Circuit Court of Appeals, ExxonMobil Chemical Company recommends that the lower exposure levels be observed as reasonable worker protection.

### THE ACGIH RECOMMENDS THE FOLLOWING THRESHOLD LIMIT VALUES:

A TWA of 10 mg/m<sup>3</sup> for inhalable particulate (total dust) and a TWA of 3 mg/m<sup>3</sup> for respirable particulate (total dust) for Particulates Not Otherwise Classified (PNOC).

ExxonMobil RECOMMENDS THE FOLLOWING OCCUPATIONAL EXPOSURE LIMITS:

For Bromobutyl Rubber Process (skin):

Saturated trihalo-compounds containing at least 2 Bromine atoms, 0.01 ppm

Saturated dibromo compounds, 1.0 ppm

Unsaturated monobromo compounds, 0.1 ppm

Unsaturated dihalo-compounds containing at least 1 Bromine atom, 0.001 ppm

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

SPECIFIC GRAVITY at Deg F:	0.92 at 60 Solid
VAPOR PRESSURE, mmHg at Deg F:	Not Applicable
SOLUBILITY IN WATER, wt. % at Deg F:	Insoluble
VISCOSITY OF LIQUID, cSt at Deg F:	Not Applicable
SP. GRAV OF VAPOR, at 1 atm(Air=1):	Not Applicable
FREEZING/MELTING POINT, Deg F:	Not Applicable
EVAPORATION RATE, n-Bu Acetate=1:	Not Applicable
BOILING POINT, Deg F:	Not Applicable

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## SECTION 10 STABILITY AND REACTIVITY

### STABILITY:

Stable

### CONDITIONS TO AVOID INSTABILITY:

Not Applicable

### HAZARDOUS POLYMERIZATION:

Will not occur

### CONDITIONS TO AVOID HAZARDOUS POLYMERIZATION:

Not Applicable

### MATERIALS AND CONDITIONS TO AVOID INCOMPATIBILITY:

Polymer decomposition occurs at temperatures greater than  
482 deg F/250 deg C

### HAZARDOUS DECOMPOSITION PRODUCTS:

Hydrogen Bromide (HBr) (Toxic), Brominated compounds and Flammable  
Hydrocarbons

## SECTION 11 TOXICOLOGICAL INFORMATION

Please refer to Section 3 for available information on potential health effects.

## SECTION 12 ECOLOGICAL INFORMATION

No specific ecological data are available for this product. Please refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting information.

## SECTION 13 DISPOSAL CONSIDERATIONS

Please refer to Sections 5, 6 and 15 for disposal and regulatory information.

## SECTION 14 TRANSPORT INFORMATION

### DEPARTMENT OF TRANSPORTATION (DOT):

This product is not DOT regulated.

## SECTION 15 REGULATORY INFORMATION

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## TSCA:

This product is listed on the TSCA Inventory at CAS Registry Number 134737-24-9

## CERCLA:

If this product is accidentally spilled, it is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation and Liability Act. We recommend you contact local authorities to determine if there may be other local reporting requirements.

## SARA TITLE III:

Under the provisions of Title III, Sections 311/312 of the Superfund Amendments and Reauthorization Act, this product is classified into the following hazard categories:

Not Hazardous.

This product does not contain Section 313 Reportable Ingredients.

## SECTION 16 OTHER INFORMATION

### NOTES:

1. Exxpro Elastomer will withstand 170 deg C for 30 minutes before decomposition begins with the release of HBr ( 5 wt % maxium). Continued heating in the range 250 to 300 deg C ( 482 to 572 deg F) at 10 deg C/min results in the decomposition of the rubber to volatile hydrocarbons and halogenated hydrocarbons.
2. Incorporation of carbon black increases Exxpro Elastomer temperature stability and reduces the quantity of HBr released.
3. Applicable grades: Exxpro 3035, Exxpro 3433, Exxpro 3745, Exxpro 8433, MDX 89-1, MDX 89-4, MDX 90-2, MDX 90-3, MDX 90-10, MDX 91-11, MDX 93-4, MDX 93-5, MDX 94-6, MDX 95-4, MDX 96-1, MDX 96-3, MDX 96-4, MDX 96-5, MDX 97-2, MDX 97-3, MDX 00-3, MDX 01-4, MDX 01-5, MDX 01-6, MDX 02-2, MDX 03-1, Exxpro 7433, Exxpro 7745, Exxpro 8745, Exxpro JDX-1-A, Exxpro JDX-2-B, Exxpro JDX-3-B, Exxpro JDX-4-B, Exxpro JDX-5-C, Exxpro JDX-6-D, Exxpro JDX-7-E, Exxpro JDX-8-F, Exxpro JDX-9-G, Exxpro JDX-10-H, BR MDX Scrap

### HAZARD RATING SYSTEMS:

This information is for people trained in:  
National Paint & Coatings Association's (NPCA)  
Hazardous Materials Identification System (HMIS)  
National Fire Protection Association (NFPA 704)  
Identification of the Fire Hazards of Materials

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	NPCA-HMIS	NFPA 704	KEY
HEALTH	1	1	4 = Severe
FLAMMABILITY	1	1	3 = Serious
REACTIVITY	0	0	2 = Moderate
			1 = Slight
			0 = Minimal

CAUTION: HMIS ratings are based on a 0-4 rating scale with 1 representing minimal hazards or risks, and 4 representing significant hazards or risks. Recommended HMIS ratings should not be used in the absence of a fully implemented HMIS hazard communication program.

## REVISION SUMMARY:

Since October 30, 2003 this MSDS has been revised in Section(s):  
3, 8

## REFERENCE NUMBER:

HDHA-J-00045

## SUPERSEDES ISSUE DATE:

October 30, 2003

This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the users responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.

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