



Product Name: EXXON™ BROMOBUTYL RUBBER  
Revision Date: 27 May 2022  
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ExxonMobil Chemical Company  
22777 Springwoods Village Parkway  
Spring, TX 77389-1425

Subject: OSHA Hazard Communication 2012 Combustible Dust Labeling

Dear ExxonMobil Customer:

As you may be aware, in March 2012, the U.S. Occupational Safety and Health Administration (OSHA) issued its final Hazard Communication Standard which stated its intent to adopt the United Nations' Globally Harmonized System (GHS) for the classification and labeling of hazardous substances. This updated hazard communication standard requires product labels for hazardous substances and mixtures. In addition to product labels, the standard requires suppliers to provide Safety Data Sheets (SDSs), previously known as Material Safety Data Sheets (MSDSs), for all hazardous products.

The UN GHS does not contain a classification for combustible dust hazards. The combustible dust hazard was an element OSHA desired to include in its standard. As such, OSHA amended the standard definition of 'hazardous chemical' to include 'combustible dust' which has resulted in a hazard classification of certain polymer materials and the need to provide a hazard label. For polymer materials presenting a combustible dust hazard as shipped, a label will be applied to each package. For polymers that do not present a combustible dust hazard in the shipped form, OSHA permits the transmittal of label information with the SDS. Enclosed please find the combustible dust label for the referenced product.

If you have any questions, please direct them to your ExxonMobil Customer Service Representative.



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Please find below an OSHA HazCom 2012 label for EXXON™ BROMOBUTYL RUBBER for combustible dust hazard.

**EXXON™ BROMOBUTYL RUBBER**

**ExxonMobil Product Solutions Company (a division of Exxon Mobil Corporation)**

SDS – LOC. 106  
22777 Springwoods Village Parkway  
Spring, TX 77389-1425 USA

<b>24 Hour Health Emergency</b>	(800) 726-2015
<b>Product Technical Information</b>	(832) 624-8500
<b>Supplier General Contact</b>	(832) 624-8500
<b>Transportation Emergency Phone</b>	(800)424-9300 or (703) 527 - 3887 CHEMTREC

**Warning**

**May form combustible dust concentrations in air**

**Dust clouds are explosive  
Product is a static accumulator  
Avoid heat, sparks, open flame  
Earth wherever possible**

**For more information, see Safety Data Sheet**

**For further information on this product,  
See manufacturer's data sheet**

# SAFETY DATA SHEET

## SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT

**Product Name:** EXXON™ BROMOBUTYL RUBBER  
**Product Description:** Isobutylene Copolymer, see Section 16 for applicable grades.

**Intended Use:** Adhesive, Automotive Application, Pharmaceutical, Rubber applications

### COMPANY IDENTIFICATION

**Supplier:** ExxonMobil Product Solutions Company (a division of Exxon Mobil Corporation)  
SDS – LOC. 106  
22777 Springwoods Village Parkway  
Spring, TX 77389-1425 USA

<b>24 Hour Health Emergency</b>	(800) 726-2015
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## SECTION 2 HAZARDS IDENTIFICATION

This material is hazardous according to regulatory guidelines (see (M)SDS Section 15).

### CLASSIFICATION:

Combustible Dust

### LABEL:

**Pictogram:** No Pictogram

**Signal Word:** Warning

### Hazard Statements:

May form combustible dust concentrations in air.

### Other hazard information:

**HAZARD NOT OTHERWISE CLASSIFIED (HNOC):** None as defined under 29 CFR 1910.1200.

### PHYSICAL / CHEMICAL HAZARDS

**WARNING:** May form combustible dust concentrations in air (during processing/handling). Thermal burn hazard - contact with hot material may cause thermal burns.

### HEALTH HAZARDS

If dust is generated, it could scratch the eyes and cause minor irritation to the respiratory tract. No adverse

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effects due to inhalation are expected. When heated, the vapors/fumes given off may cause respiratory tract irritation.

#### ENVIRONMENTAL HAZARDS

No significant hazards.

<b>NFPA Hazard ID:</b>	Health: 1	Flammability: 1	Reactivity: 0
<b>HMIS Hazard ID:</b>	Health: 1	Flammability: 1	Reactivity: 0

**NOTE:** This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

<b>SECTION 3</b>	<b>COMPOSITION / INFORMATION ON INGREDIENTS</b>
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This material is defined as a mixture.

#### Hazardous Substance(s) or Complex Substance(s) required for disclosure

Name	CAS#	Concentration*	GHS Hazard Codes
2,6-DI-TERT-BUTYL-P-CRESOL	128-37-0	< 0.15%	H400(M factor 1), H410(M factor 1)
CALCIUM STEARATE	1592-23-0	1 - 3%	None

\* All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage (concentration) of composition may have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals, employees, or designated representatives in accordance with applicable provisions of paragraph (i).

<b>SECTION 4</b>	<b>FIRST AID MEASURES</b>
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#### INHALATION

At ambient/normal handling temperatures, no adverse effects due to inhalation of dust are expected. 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.

#### SKIN CONTACT

Wash contact areas with soap and water. For hot product: Immediately immerse in or flush affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt medical attention.

#### EYE CONTACT

Flush thoroughly with water for at least 15 minutes. Get medical assistance.

#### INGESTION

First aid is normally not required. Seek medical attention if discomfort occurs.

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## SECTION 5 FIRE FIGHTING MEASURES

### EXTINGUISHING MEDIA

**Appropriate Extinguishing Media:** Use water fog, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.

**Inappropriate Extinguishing Media:** Straight Streams of Water

### FIRE FIGHTING

**Fire Fighting Instructions:** Assure an extended cooling down period to prevent re-ignition. Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

**Unusual Fire Hazards:** Explosion: Avoid generating dust; fine dust dispersed in air in sufficient concentration and in the presence of an ignition source is a potential dust explosion hazard.

**Hazardous Combustion Products:** Flammable hydrocarbons, Hydrogen Bromide, Incomplete combustion products, Oxides of carbon, Smoke, Fume

### FLAMMABILITY PROPERTIES

**Flash Point [Method]:** N/A

**Flammable Limits (Approximate volume % in air):** LEL: N/D UEL: N/D

**Autoignition Temperature:** N/A

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

### PROTECTIVE MEASURES

Avoid contact with spilled material. Dust Deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (for example, clearing dust surfaces with compressed air). Prevent dust exposure to ignition sources. For example, use non-sparking tools and prohibit smoking, flares, sparks or flames in immediate area. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

### SPILL MANAGEMENT

**Land Spill:** Prevent dust cloud. Scrape up spilled material with shovels into a suitable container for recycle or disposal.

**Water Spill:** Confine the spill immediately with booms.

Water spill and land spill recommendations are based on the most likely spill scenario for this material;

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however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

**ENVIRONMENTAL PRECAUTIONS**

Prevent entry into waterways, sewers, basements or confined areas.

**SECTION 7 HANDLING AND STORAGE**

**HANDLING**

Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dust from material can accumulate electrostatic charges due to friction from transfer and mixing operations and cause an electrical spark (ignition source). Provide adequate precautions to ignition sources, such as electrical grounding and bonding, inert atmosphere or non-sparking tools. However, bonding and grounds may not eliminate the hazard for static accumulation. Consult local applicable standards for guidance. Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids and EN 61241, Electrical Apparatus for Use in the Presence of Combustible Dust for safe handling. Avoid elevated temperatures for prolonged periods of time. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid vapors from heated materials to prevent exposure to potentially toxic/irritating fumes. Prevent small spills and leakage to avoid slip hazard. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight.

**Loading/Unloading Temperature:** [Ambient]

**Transport Temperature:** [Ambient]

**Transport Pressure:** [Ambient]

**Static Accumulator:** This material is not a static accumulator.

**STORAGE**

Do not store in open or unlabelled containers.

**Storage Temperature:** [Ambient]

**Storage Pressure:** [Ambient]

**Suitable Containers/Packing:** Cardboard Cartons; Wooden Crates; Steel crates

**Suitable Materials and Coatings (Chemical Compatibility):** Aluminum; Paper; Steel; Wood

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

**EXPOSURE LIMIT VALUES**

Exposure limits/standards (Note: Exposure limits are not additive)

Substance Name	Form	Limit / Standard			NOTE	Source
2,6-DI-TERT-BUTYL-P-CRESOL	Inhalable fraction and vapor	TWA	2 mg/m3		N/A	ACGIH
CALCIUM STEARATE	Inhalable fraction.	TWA	10 mg/m3		N/A	ACGIH

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CALCIUM STEARATE	Respirable fraction.	TWA	3 mg/m3		N/A	ACGIH
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**Exposure limits/standards for materials that can be formed when handling this product:**

The supplier 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
- \* Monobromohexanes, 0.5 ppm

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

No biological limits allocated.

**ENGINEERING CONTROLS**

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

**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, oxygenated components). 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 local sales representative for further information. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product are designed and maintained to minimize dust generation and accumulation. Ensure that dust-handling systems (such as exhaust ducts, dusts collectors, vessels, and processing equipment) are designed to minimize the potential for dust ignition and prevent explosion propagation. For example, use explosion relief vents, an explosion suppression system or inert equipment internals. Additional examples of proper equipment include using only appropriately classified electrical equipment and powered industrial trucks.

**PERSONAL PROTECTION**

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

**Respiratory Protection:** If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

Particulate air-purifying respirator approved for dust / oil mist is recommended.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

**Hand Protection:** Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions.

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Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

If product is hot, thermally protective, chemical resistant gloves are recommended. If contact with forearms is likely, wear gauntlet style gloves.

**Eye Protection:** If contact is likely, safety glasses with side shields are recommended.

**Skin and Body Protection:** Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

If product is hot, thermally protective, chemical resistant apron and long sleeves are recommended.

**Specific Hygiene Measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

## ENVIRONMENTAL CONTROLS

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Note:** Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

### GENERAL INFORMATION

**Physical State:** Solid

**Form:** Chunk

**Color:** Amber

**Odor:** None to Mild

**Odor Threshold:** N/D

### IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

**Relative Density:** 0.93 [In-house method]

**Density:** 930 kg/m<sup>3</sup> (7.76 lbs/gal, 0.93 kg/dm<sup>3</sup>) [In-house method]

**Flammability (Solid, Gas):** N/A

**Flash Point [Method]:** N/A

**Flammable Limits (Approximate volume % in air):** LEL: N/D UEL: N/D

**Autoignition Temperature:** N/A

**Boiling Point / Range:** N/A

**Decomposition Temperature:** N/D

**Vapor Density (Air = 1):** N/A

**Vapor Pressure:** N/A

**Evaporation Rate (n-butyl acetate = 1):** N/A

**pH:** N/A

**Log Pow (n-Octanol/Water Partition Coefficient):** N/A

**Solubility in Water:** Negligible

**Viscosity:** N/A

**Oxidizing Properties:** See Hazards Identification Section.



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**OTHER INFORMATION**

**Freezing Point:** N/A

**Melting Point:** N/A

**Hygroscopic:** No

<b>SECTION 10</b>	<b>STABILITY AND REACTIVITY</b>
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**REACTIVITY:** See sub-sections below.

**STABILITY:** Material is stable under normal conditions.

**CONDITIONS TO AVOID:** Excessive heat. Avoid elevated temperatures for prolonged periods of time.

**MATERIALS TO AVOID:** N/D

**HAZARDOUS DECOMPOSITION PRODUCTS:** Material does not decompose at ambient temperatures.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Hazardous polymerization will not occur.

<b>SECTION 11</b>	<b>TOXICOLOGICAL INFORMATION</b>
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**INFORMATION ON TOXICOLOGICAL EFFECTS**

<b>Hazard Class</b>	<b>Conclusion / Remarks</b>
<b>Inhalation</b>	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on chemical structure (polymers).
Irritation: No end point data for material.	Negligible hazard at ambient/normal handling temperatures.
<b>Ingestion</b>	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on chemical structure (polymers).
<b>Skin</b>	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on chemical structure (polymers).
Skin Corrosion/Irritation: No end point data for material.	Negligible irritation to skin at ambient temperatures. Based on chemical structure (polymers).
<b>Eye</b>	
Serious Eye Damage/Irritation: No end point data for material.	May cause mild, short-lasting discomfort to eyes. Based on chemical structure (polymers).
<b>Sensitization</b>	
Respiratory Sensitization: No end point data for material.	Not expected to be a respiratory sensitizer.
Skin Sensitization: No end point data for material.	Not expected to be a skin sensitizer. Based on chemical structure (polymers).
<b>Aspiration:</b> No end point data for material.	Not expected to be an aspiration hazard. Based on physico-chemical properties of the material.
<b>Germ Cell Mutagenicity:</b> No end point data for material.	Not expected to be a germ cell mutagen. Based on chemical structure (polymers).
<b>Carcinogenicity:</b> No end point data for material.	Not expected to cause cancer. Based on chemical structure (polymers).
<b>Reproductive Toxicity:</b> No end point data	Not expected to be a reproductive toxicant. Based on chemical

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for material.	structure (polymers).
<b>Lactation:</b> No end point data for material.	Not expected to cause harm to breast-fed children.
<b>Specific Target Organ Toxicity (STOT)</b>	
Single Exposure: No end point data for material.	Not expected to cause organ damage from a single exposure.
Repeated Exposure: No end point data for material.	Not expected to cause organ damage from prolonged or repeated exposure. Based on chemical structure (polymers).

**OTHER INFORMATION**

**For the product itself:**

Elevated temperatures or mechanical action may form vapors, mists or fumes which may be irritating to the eyes and respiratory tract.

Dust may be irritating to eyes and respiratory tract.

**Contains:**

Additives that are encapsulated in the polymer. Under the normal conditions for processing and use of this polymer the encapsulated additives are not expected to pose any health hazard. However, grinding of the polymer is not recommended without the use of appropriate measures to control exposure (see Section 8 - Engineering Controls).

**The following ingredients are cited on the lists below:** None.

--REGULATORY LISTS SEARCHED--

- |              |             |               |
|--------------|-------------|---------------|
| 1 = NTP CARC | 3 = IARC 1  | 5 = IARC 2B   |
| 2 = NTP SUS  | 4 = IARC 2A | 6 = OSHA CARC |

**SECTION 12 ECOLOGICAL INFORMATION**

The information given is based on data for the material, components of the material, or for similar materials, through the application of bridging principals.

**ECOTOXICITY**

- Material -- Not expected to be harmful to aquatic organisms.
- Material -- Not expected to be harmful to terrestrial organisms.

**MOBILITY**

Material -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

**SECTION 13 DISPOSAL CONSIDERATIONS**

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

**DISPOSAL RECOMMENDATIONS**

Suitable routes of disposal are supervised incineration, preferentially with energy recovery, or appropriate recycling methods in accordance with applicable regulations and material characteristics at the time of disposal.

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**REGULATORY DISPOSAL INFORMATION**

RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

<b>SECTION 14</b>	<b>TRANSPORT INFORMATION</b>
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**LAND (DOT):** Not Regulated for Land Transport

**LAND (TDG):** Not Regulated for Land Transport

**SEA (IMDG):** Not Regulated for Sea Transport according to IMDG-Code

**Marine Pollutant:** No

**AIR (IATA):** Not Regulated for Air Transport

<b>SECTION 15</b>	<b>REGULATORY INFORMATION</b>
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**OSHA HAZARD COMMUNICATION STANDARD:** This material is considered hazardous in accordance with OSHA HazCom 2012, 29 CFR 1910.1200.

**Listed or exempt from listing/notification on the following chemical inventories:** Please contact Customer Service (see Section 1 for supplier contact information).

**SARA 302:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

**SARA (311/312) REPORTABLE GHS HAZARD CLASSES:** Combustible Dust

**SARA (313) TOXIC RELEASE INVENTORY:** This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

**The following ingredients are cited on the lists below:**

Chemical Name	CAS Number	List Citations
2,6-DI-TERT-BUTYL-P-CRESOL	128-37-0	1
CALCIUM STEARATE	1592-23-0	1, 16

--REGULATORY LISTS SEARCHED--

1 = ACGIH ALL

6 = TSCA 5a2

11 = CA P65 REPRO

16 = MN RTK

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2 = ACGIH A1	7 = TSCA 5e	12 = CA RTK	17 = NJ RTK
3 = ACGIH A2	8 = TSCA 6	13 = IL RTK	18 = PA RTK
4 = OSHA Z	9 = TSCA 12b	14 = LA RTK	19 = RI RTK
5 = TSCA 4	10 = CA P65 CARC	15 = MI 293	

Code key: CARC=Carcinogen; REPRO=Reproductive

<b>SECTION 16</b>	<b>OTHER INFORMATION</b>
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N/D = Not determined, N/A = Not applicable

**KEY TO THE H-CODES CONTAINED IN SECTION 3 OF THIS DOCUMENT (for information only):**

H400: Very toxic to aquatic life; Acute Env Tox, Cat 1

H410: Very toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 1

**THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:**

Company Contact Methods information was modified.

Company Name information was modified.

Section 01: Company Contact Methods information was modified.

Section 01: Company Mailing Address information was modified.

Section 15: List Citations Table information was modified.

**THIS MSDS COVERS THE FOLLOWING MATERIALS:** Bromobutyl rubbers for which the grade name consists of a base polymer designated by the prefix EXXON BROMOBUTYL that may or may not be followed by the suffix referring to a product description. The base grade name followed by the following designation : | 2211 | 2222 | 2235 | 2244 | 2255 | Suffix: | LOW BHT | OFF-SPEC | REPRO | STD

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