

1,3-BUTADIENE

BUILDING BLOCK CHEMICAL WITH CRITICAL USES IN DEFENSE APPLICATIONS WITH ITS POLYMERS

1,3-Butadiene is an important building block chemical and a critical chemical intermediate used in the manufacturing of polymers that support defense applications. These include polybutadiene, styrene-butadiene rubber (SBR), styrene-butadiene latex, nylon, acrylonitrile-butadiene-styrene (ABS), and polychloroprene (neoprene), as well as other elastomers.

MILITARY VEHICLES

- Tank tracks
- Tires
- Truck covers
- Airtight and watertight seals in tanks, submarines, and aircraft
- Airbags
- Shock-absorbing pads
- Fuel systems
- Aircraft panels
- Grommets for noise reduction and vibration dampeners
- Instrument panels

Parachute harnesses and bands

Military propellant binders

Rocket combustion fuel

Robotics

Ammunition pouches

Dummy rifle bullets

Marine and climbing ropes

Cargo nets

MILITARY APPAREL & GEAR

- Rain resistant apparel
- Tactical vests
- Backpacks and hydration packs
- Shock-absorption and cushioning in helmets and body armor
- Wetsuits
- Chemical-resistant gloves
- Boots
- Goggle straps

Electrical housing connectors

Wire and cable jacketing

Respiratory Protection (gas masks)

While 1,3-Butadiene is not sold or used directly by consumers, it is reacted/polymerized and may be further processed to create a range of materials that can be used to make consumer goods.

1,3-Butadiene is a critical building block chemical, and it is important that EPA considers the best available science in its risk evaluation under the Toxic Substances Control Act to avoid any potential disruptions in the production, manufacture, or transportation of many critical products.