

## Crude Butadiene (Stabilized)

**Important!** For detailed information on this product and emergency measures, obtain the Canadian Safety Data Sheet ([SDS](#))/US Safety Data Sheet ([SDS](#)). In the case of an emergency, please call our 24-hour hotline at 1-800-561-6682 or 1-403-314-8767.

May also be called: C4 Co-product; C4 Intermediate Hydrocarbon Stream; C4, ethylene-manuf.-by-product; Joffre C4's, Crude Butadiene

### Product/Substance Use:

- Crude Butadiene is manufactured at NOVA Chemicals' Joffre, Alberta facility and is transported by railcars.
- It is used as feedstock for industrial chemicals and plastics manufacturing.

### Characteristics and Safe Handling:

- Crude Butadiene is an extremely flammable gas having a faint, sweet gasoline-like odor at ambient temperatures.
- This product is classified as a physical, health and environmental hazard in the workplace and as flammable gas during transportation.
- Any equipment used in areas of handling or storage of the product must be approved for flammable gases and properly grounded for control of static electricity.
- Equipment design and handling procedures should exclude oxygen to avoid possible explosive peroxide formation. The use of suitable inhibitors such as t-butyl catechol (TBC) or equivalent are required for transportation and are recommended if the storage system cannot be maintained free of oxygen.
- If released from containment, product evaporates readily and may be easily ignited by heat, sparks or flames. Containers exposed to fire conditions may explode. Liquefied gas may explode on contact with hot water (45 °C to 75 °C) (113 °F to 167 °F).
- Any release must be monitored due to risk of fire or explosion, and possible toxic effects. Vapors may travel considerable distance to a source of ignition and flash back. Vapors may form an explosive mixture with air.
- Crude butadiene cools its surroundings to extremely low temperatures as it vaporizes. Many materials may become brittle and fail without warning when exposed to this product. If any safety equipment comes in contact with this product, it must be inspected and retested for integrity or replaced.

### Health and Safety Information:

- Wear all recommended personal protective equipment if any contact with this product is possible. Immediately remove and clean any contaminated clothing prior to reuse. Ensure adequate ventilation is available.
- This product is harmful if it comes in contact with skin and/or eyes or if it is inhaled. Symptoms include frostbite, headache, dizziness, nausea and heartbeat irregularities. Crude Butadiene contains an ingredient which is known to cause cancer.

### Environmental Information:

- Crude Butadiene is highly volatile but the 1,3-butadiene component as a liquid is expected to have high mobility in soil.
- Components of this product are considered as harmful to aquatic life with long lasting effects. Crude Butadiene is not expected to accumulate in plant or animal tissues.
- Associated wastes may be regulated in Canada and in the United States. Ensure all applicable regulations are met.

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For more information on this, or any other NOVA Chemicals' product, please contact us at the nearest location below during business hours or visit our website at [www.novachemicals.com](http://www.novachemicals.com):

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