

PRODUCT BACKGROUNDER

Hydrocarbons, C5 Rich (Isoprene)

Important! For detailed information on this product and emergency measures, obtain the Material Safety Data Sheet (MSDS). 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: Crude Isoprene, Isoprene/Piperylene Concentrate, C₅ Mixture, Isoprene Product,

Product/Substance Use:

- This is an industrial grade product, manufactured at NOVA Chemicals' Corunna, Ontario facility and shipped by rail.
- This product is used as a raw material to make industrial chemicals and rubbers.

Characteristics and Safe Handling:

- This product is regulated as both flammable and toxic in the workplace and as flammable during transportation.
- This product is a highly volatile, highly flammable, colourless liquid with a slight hydrocarbon odour.
- Any equipment used in areas of handling or storage must be approved for flammable liquids and properly grounded for control of static electricity.
- If released from containment, the product evaporates readily and is easily ignited by heat, sparks or flames. Containers exposed to fire conditions may explode.
- Any liquid or vapour release must be monitored due to risk of fire or explosion and possible toxic effects. Ignition from a distant source with flashback is possible. Vapours are heavier than air and may collect to dangerous levels in low, underground or confined areas.
- Material will float on water and product components will evaporate rapidly. Any liquid release on water or land must be isolated, contained and recovered or cleaned up by properly trained and equipped personnel.

Health and Safety Information:

- Ensure adequate ventilation is available. This product is harmful if inhaled. Breathing product vapours may cause irritation and at very high concentrations may cause headache, dizziness, nausea and loss of coordination. With extended contact (usually in an enclosed space), unconsciousness or death due to low oxygen levels is possible.
- Contact with material may cause irritation to the eyes and skin. Flush immediately out of eyes and/or off of skin. Prolonged contact with this product may cause excessive dryness of the skin, dermatitis and skin sensitization reactions.
- Wear all recommended personal protective equipment if any contact with this material is likely. Immediately remove and clean any contaminated clothing prior to reuse.
- If accidentally swallowed, DO NOT INDUCE VOMITING. Aspiration of liquid into lungs may cause chemical pneumonia. Ingestion of this material may cause headache, sleepiness, dizziness, slurred speech, blurred vision, liver and kidney damage. Seek immediate medical attention if ingested or aspirated.
- Over time, repeated high exposures have been linked to blood cell changes, liver, kidney and nervous system damage, breathing problems and cardiac sensitization. Isoprene, which is less than 30% of this product, has been listed as possibly carcinogenic to humans.

Environmental Information:

- This product is insoluble in water, highly volatile, with limited absorption into soil and sediment. Components are considered harmful to aquatic life and are not known to accumulate in plant or animal tissues.
- Components in air will degrade rapidly over time and more slowly in soils or ground water. Soil remediation may be required after large spills.
- 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.

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