

PRODUCT BACKGROUNDER

OCTYLENES™

Important! For detailed information on this material 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: Octenes, Mixed Octenes/Xylene

Product /Substance Use:

- This is an industrial co-product, sold from NOVA Chemicals' Joffre, Alberta facility and transported in bulk by tank car.
- This material is used as a petrochemical feedstock that is processed into other chemical products.

Characteristics and Safe Handling:

- This material is regulated in the workplace as both flammable and toxic. It is also regulated during transportation as a flammable liquid.
- Octylenes is a volatile and highly flammable, colorless liquid, with a mild to distinct, hydrocarbon odor.
- If released from containment, this material evaporates readily and is easily ignited by heat, sparks or flames.
- Containers exposed to fire conditions may explode:
 - Any equipment used in areas of handling or storage must be approved for flammable liquid systems and properly grounded for control of static electricity.
 - Any liquid or vapor release must be monitored due to risk of fire or explosion, and possible toxic effects. Ignition from a distance with flashback is possible. Vapors are heavier than air and may collect to dangerous levels in low, underground or confined areas.
- Liquid will float on water and 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 material is harmful if inhaled. Breathing material vapors at high concentrations may cause headache, sleepiness, dizziness, nausea, loss of coordination, slurred speech and blurred vision. Repeated inhalation of this material may result in bronchitis or other breathing problems and may damage liver, kidney, lungs and other internal organs. With extended contact (usually in an enclosed space), unconsciousness or death is possible.
- Wear all recommended personal protective equipment if any contact with this material is likely as contact with octylenes is irritating to the eyes and skin. If exposed, flush immediately out of eyes and/or off of skin. Prolonged and/or repeated skin contact may cause irritation and dermatitis. This material contains components that may be absorbed through the skin. Gloves and clothing contaminated with this material can increase exposure by skin absorption and can also pose a potential fire hazard. Immediately remove and clean any contaminated clothing prior to reuse or discard.
- Octylenes is harmful if accidentally swallowed. Seek immediate medical attention. If ingested, DO NOT INDUCE VOMITING, as liquid drawn into lungs may cause serious injury (chemical pneumonia).
- Xylene, which is less than 45% of this material, is considered to be a possible developmental toxicant (birth defects) in Canada.

Environmental Information:

- Octylenes is highly volatile and insoluble in water (floats on water). This material is considered harmful to aquatic life and may accumulate in plant or animal tissues.
- Some absorption into soil and sediment is possible. Material components are likely to degrade in air, soils or ground water into less toxic materials. The half-life of octene in air is 6.3 hours, in water is 360 hours and in sediment is 1440 hours. Some of the xylene will be scavenged by rain. From the surface of water, half of the amount of xylene will be volatilized within 2 to 5.5 days. 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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