

## PRODUCT BACKGROUNDER

### Low Sulfur Diesel

**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: Ultra-Low Sulfur Diesel, On- and Off-Road Diesel, diesel oil, fuel distillate, hydrodesulfurized kerosene**

#### Product /Substance Use:

- Low Sulfur Diesel is manufactured at Suncor Energy Products' Sarnia, Ontario facility and shipped by truck from the NOVA Chemicals' Corunna, Ontario facility.
- It is used as fuel for on- and off-road diesel engines and may be burned as a fuel oil in homes or used in commercial heating and in the marine industry.

#### Characteristics and Safe Handling:

- Product is regulated in the workplace as toxic and combustible, and as flammable for transportation.
- This product is an oily, amber liquid that may be dyed red for off-road diesel sales. It has a distinctive kerosene-like odor.
- Any equipment used in areas of handling or storage in the workplace must be approved for combustible liquids and properly grounded for control of static electricity.
- If released from containment, product may be easily ignited by heat, sparks or flames. Containers exposed to fire conditions may explode.
- Material burns readily when heated, and sparks or flames may ignite vapors or mists. Ignition from a distant source with flashback is possible.
- Any release to water or land must be isolated, contained and recovered or cleaned up by properly trained and equipped personnel.

#### Health and Safety Information:

- Wear all recommended personal protective equipment if any contact with this material is likely. Immediately remove and clean any contaminated clothing prior to reuse.
- Contact with product may cause irritation to the eyes and skin. Flush immediately out of eyes and/or off of skin. Pre-existing medical conditions may be aggravated by exposure. Repeated or prolonged skin contact with this product may cause irritation, blistering, severe dermatitis, and allergic-like skin reactions. Prolonged or long-term exposure could lead to skin cancer.
- Ensure adequate ventilation is available. This material is harmful if inhaled. Pre-existing medical conditions may be aggravated by exposure. Breathing heated vapors or mists may cause irritation and at very high concentrations may cause headache, light-headedness, drowsiness, nausea, liver and kidney damage, heartbeat irregularities and blood disorders. With extended contact (usually in an enclosed space), unconsciousness or death is possible.
- Route exhaust engines outside/ outdoors. Provide adequate ventilation and other exposure controls. Diesel exhaust fumes are considered probably carcinogenic to humans.
- This product is harmful and possibly fatal if swallowed. If accidentally swallowed, DO NOT INDUCE VOMITING, as liquid drawn into the lungs may cause serious injury (chemical pneumonia). Seek immediate medical attention.

#### Environmental Information:

- Product evaporates slowly. Liquid spills will float on the surface of water and disperse if not contained by booms. Product is considered moderately toxic to aquatic life.
- Spills on land will be absorbed into soils and sediments. This product is considered biodegradable. Some components biodegrade quickly while other higher molecular weight components will degrade more slowly. Atmospheric half-lives of 0.2 to 1.5 days have been calculated for representative C9 and C16 hydrocarbon components of kerosenes. Soil remediation may be required for large spills.
- Associated wastes may be regulated in Canada and in the United States. Ensure all applicable regulations are met.

*Last update: May 12, 2009*

*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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