

PRODUCT BACKGROUNDER

Residual Fuel Oil (RFO)

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: Bunker "C", Fuel oil no. 6, Vacuum Residual Fuel Oil (VRFO), HFO (Heavy Fuel Oil)

Product/Substance Use:

- This product is a blended heavy fuel oil, manufactured at NOVA Chemicals' Corunna, Ontario facility and shipped by truck, railcar, pipeline or marine vessel.
- This product is burned as fuel in power generating facilities, industrial and agricultural boilers, and in marine diesel engines.

Characteristics and Safe Handling:

- This product is regulated in the workplace as toxic and combustible, and as combustible for transportation in the United States.
- This product is a thick, tar-like, dark brown to black-coloured heavy oil material with a distinctive mothball-like odour.
- Any equipment used in areas of handling or storage of the heated product must be approved for combustible liquids and properly grounded for control of static electricity.
- If released from containment, product may be ignited by uncontrolled heat, sparks or flames. Containers exposed to fire conditions may explode.
- Material burns readily when heated, and sparks or flames may ignite released vapours or mists. Ignition from a distant source with flashback is possible.
- Any release to land or water must be isolated, contained and recovered or cleaned up by properly trained and equipped personnel.

Health and Safety Information:

- Contact with material may cause irritation to the eyes and skin. Flush immediately out of eyes and/or off of skin. Prolonged skin contact with this product may cause dermatitis, sensitization and could lead to skin cancer.
- Contact with hot product can cause severe eye irritation or damage and severe burns to the skin. Seek immediate medical attention.
- Ensure adequate ventilation is available. This product is harmful if inhaled. Breathing heated vapours 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. If extended contact occurs (usually in an enclosed space), unconsciousness or death is possible.
- If accidentally swallowed, DO NOT INDUCE VOMITING. Aspiration of liquid into lungs may cause chemical pneumonia. Seek immediate medical attention.
- Wear all recommended personal protective equipment if any contact with this material is likely. Immediately remove and clean any contaminated clothing prior to reuse.
- Product contains polynuclear aromatic hydrocarbons, which may be carcinogenic on prolonged contact with skin.
- This product contains up to 3.5% naphthalene, which is known to cause corneal damage, optical neuritis, skin sensitization, and possible blood, liver and kidney damage.

Environmental Information:

- Residual Fuel Oil has minimal to no volatility to air. Product is sticky and will strongly adhere to soils and sediment. Product solidifies at normal room temperature.
- Product is considered toxic to aquatic life and will "coat" the surface of plants, waterfowl, fish and other mammals resulting in serious injury and possible death.
- Components of this product are expected to biodegrade in the environment under both aerobic and anaerobic conditions. Hazardous short-term degradation products are not likely. Soil remediation may be required for large spills. Recovery time for impacted area following a major spill is estimated to extend into months, possibly years. Some trace PAH components are considered persistent and bioaccumulative toxins.
- Associated wastes may be regulated in Canada and in the United States. Ensure 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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