

PRODUCT BACKGROUNDER

Dicyclopentadiene (DCPD)

Important! For detailed information on this product and emergency measures, obtain the applicable 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: DCPD mixture, Cyclopentadiene dimer, bicyclopentadiene

Product/Substance Use:

- DCPD is manufactured at NOVA Chemicals' Corunna, Ontario facility and is transported by railcar.
- This product is used to make a wide range of specialty products including polyester resins, adhesives, coatings, varnishes, and other specialty chemicals.

Characteristics and Safe Handling:

- DCPD is regulated in the workplace as combustible and very toxic and is regulated in transportation as flammable.
- This product is a clear-coloured liquid with a pungent and penetrating odour.
- If released from containment, DCPD will readily evaporate and may be 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.
- Product may destabilize if subjected to extreme heat conditions and may ignite or rapidly build pressure causing possible container explosions. This product is listed in some references as "shock sensitive". Shock sensitive chemicals may explode with movement, friction or heat.
- Inhibitor is added to stabilize product in storage and where product is concentrated in distillation or evaporation processes.
- Any equipment used in areas of handling or storage must be approved for flammable liquids and must be properly grounded for control of static electricity.
- DCPD will float on water and product components evaporate rapidly. Any liquid release on water must be isolated, contained and recovered or cleaned up by properly trained and equipped personnel.

Health and Safety Information:

- This product is harmful if inhaled. Ensure adequate ventilation is available. Breathing product vapours may cause respiratory system irritation and at high concentrations may cause headache, dizziness, nausea, drowsiness and loss of coordination. Over time, possible damage to the liver, kidney and blood system may occur. With extended contact (usually in an enclosed space), convulsions, unconsciousness or death is possible.
- Contact with DCPD is irritating to the skin and to the eyes. Wear all recommended personal protective equipment if any contact with this product is likely. Flush immediately out of eyes and/or off of skin. Prolonged skin contact may cause irritation/dermatitis. Product does not readily absorb through skin and is not reported to cause sensitization. Immediately remove and clean any contaminated clothing prior to reuse or discard.
- DCPD is very harmful if accidentally swallowed and may cause liver, kidney and adrenal glands damage. Seek immediate medical attention. DO NOT INDUCE VOMITING, as liquid drawn into lungs may cause serious injury (chemical pneumonia).

Environmental Information:

- DCPD is volatile, insoluble in water (floats on water) with significant absorption into soil and sediment. Product has the potential to produce a high to moderate level of toxicity in aquatic and terrestrial life. Components are considered toxic to aquatic life and may accumulate in exposed plant or animal tissues.
- Direct photodegradation is expected with DCPD, with an estimated half-life of 1 to 3 hours. DCPD in surface waters will volatilize in 3 to 4 hours, with some possible adsorption into suspended matter or sediment. 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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