



UNIVAR

Material Safety Data Sheet

NR04669
Hydrodarco® 4000

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Id: NR04669

Product Name: Hydrodarco® 4000

Synonyms: None

Chemical Family: Hydrocarbon

Application: Liquid and vapor applications (purification, decolorization, separation, and deodorization).

Distributed By:

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Prepared By: The Safety, Health and Environment Department of Univar Canada Ltd.

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Percentage (W/W)	LD50s and LC50s Route & Species:
Activated Carbon 7440-44-0	60-100	Oral LD50 (Rat) > 10000 mg/kg

Note: No additional remark.

3. HAZARDS IDENTIFICATION

Potential Acute Health Effects:

Eye Contact: May cause mechanical irritation.

Skin Contact: May cause irritation due to abrasive action.

Inhalation: Possible mild irritation of respiratory tract due to drying and abrasive actions of dust.

Ingestion: None known

4. FIRST AID MEASURES

Eye Contact: Flush eyes with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention.

Skin Contact: Wash with soap and water. Get medical attention if irritation persists.

Inhalation: Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

Ingestion: Give two glasses of water. Seek medical attention if gastrointestinal symptoms develop.

Notes to Physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flash Point: None.

Flash Point Method: Not applicable.

Autoignition Temperature: Not Available.

Flammable Limits in Air (%): Not Available.

Extinguishing Media: If possible to do safely; move smoldering activated carbon to a non-hazardous area, preferably out of doors. Avoid stirring up dust clouds. Extinguish fire using water fog, fine water spray, carbon dioxide or foam.

Special Exposure Hazards: Activated carbon is difficult to ignite and tends to burn slowly (smolder) without producing smoke or flame. Materials allowed to smolder for long periods in enclosed spaces, may produce amounts of carbon monoxide which reach the lower explosive limit (carbon monoxide LEL = 12.5% in air). Dust may be an explosive hazard.

Hazardous Decomposition/Combustion Materials (under fire conditions): Carbon monoxide.

Special Protective Equipment: Fire fighters should wear full protective clothing, including self-contained breathing equipment.

NFPA RATINGS FOR THIS PRODUCT ARE: HEALTH 1, FLAMMABILITY 1, INSTABILITY 0

HMS RATINGS FOR THIS PRODUCT ARE: Not Available.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures: Wear appropriate protective equipment.

Environmental Precautionary Measures: Not Available.

Procedure for Clean Up: Use a method that does not generate dust. Scoop up or vacuum up and place in an appropriate closed container.

7. HANDLING AND STORAGE

Handling: For industrial use only. Handle and open containers with care. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid inhalation of chemical. Empty containers may contain hazardous product residues. Keep the containers closed when not in use. Protect against physical damage. Use appropriate personnel protective equipment. Avoid dust generation and provide for room ventilation during handling. Wet activated carbon depletes oxygen from air and, therefore, dangerously low levels of oxygen may be encountered. Whenever workers enter a vessel containing activated carbon, the vessel's oxygen content should be determined and work procedures for potentially low oxygen areas be followed.

Storage: Store in a cool, dry, well ventilated area. Product should be stored in a closed dry container. Maintain good housekeeping procedures. Store this product away from strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Localized ventilation should be used to control dust levels.

Respiratory Protection: If dusty conditions are encountered, use a NIOSH approved dust respirator. Wet activated carbon depletes oxygen from air and, therefore, dangerously low levels of oxygen may be encountered. Whenever workers enter a vessel containing activated carbon, the vessel's oxygen content should be determined and work procedures for potentially low oxygen areas be followed. A full-facepiece positive-pressure, air-supplied respirator may be required.

Gloves:

Appropriate chemical resistant gloves should be worn.

Skin Protection: Skin contact should be prevented through the use of suitable protective clothing, gloves and footwear, selected for conditions of use and exposure potential. Consideration must be given both to durability as well as permeation resistance.

Eyes: Safety glasses (with side shields). Use dust-tight chemical safety goggles when there is potential for eye contact.

Other Personal Protection Data: Ensure that eyewash stations and safety showers are proximal to the work-station location.

Ingredients	Exposure Limit - ACGIH	Exposure Limit - OSHA	Immediately Dangerous to Life or Health - IDLH
Activated Carbon	Not available.	5 mg/m ³ TWA 10 mg/m ³ TWA	Not Available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Granular or Powder.

Colour: Black

Odour: Odourless

pH Not Available.

Specific Gravity: Not Available.

Boiling Point: Not Available.

Freezing/Melting Point: Not Available.

Vapour Pressure: Not Available.

Vapour Density: Not Available.

% Volatile by Volume: Not Available.

Evaporation Rate: Not Available.

Solubility: Insoluble in water.

VOCs: Not Available.

Viscosity: Not Available.

Molecular Weight: Not Available.

Other: Not Available.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of handling, use and transportation.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Keep away from heat, sparks and flame.

Materials to Avoid: Oxidizers. Strong acids.

Hazardous Decomposition Products: Carbon monoxide.

Additional Information:

No additional remark.

11. TOXICOLOGICAL INFORMATION

Principle Routes of Exposure

Ingestion: None known

Skin Contact: May cause irritation due to abrasive action.

Inhalation: Possible mild irritation of respiratory tract due to drying and abrasive actions of dust.

Eye Contact: May cause mechanical irritation.

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Additional Information: No additional information available.

Acute Test of Product:

Acute Oral LD50: Not Available.

Acute Dermal LD50: Not Available.

Acute Inhalation LC50: Not Available.

Carcinogenicity:

Ingredients	IARC - Carcinogens	ACGIH - Carcinogens
Activated Carbon	Not listed.	Not listed.

Carcinogenicity Comment: No additional information available.

Reproductive Toxicity/ Teratogenicity/ Embryotoxicity/ Mutagenicity: Not Available.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information:

Ingredients	Ecotoxicity - Fish Species Data	Acute Crustaceans Toxicity:	Ecotoxicity - Freshwater Algae Data
Activated Carbon	Not Available.	Not Available.	Not Available.

Other Information: This material, in its original state, is not harmful to the environment.

13. DISPOSAL CONSIDERATIONS

Disposal of Waste Method: Activated carbon, in its original state, is not a hazardous material or hazardous waste. Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations. Recycling (reactivation) may be a viable alternative to disposal.

Contaminated Packaging: Empty containers should be recycled or disposed of through an approved waste management facility.

14. TRANSPORT INFORMATION

DOT (U.S.):

DOT Shipping Name: Not Regulated.

DOT Hazardous Class: Not Applicable.

DOT UN Number: Not Applicable.

DOT Packing Group: Not Applicable.

DOT Reportable Quantity (lbs): Not Available.

Note: No additional remark.

Marine Pollutant: No.

TDG (Canada):

TDG Proper Shipping Name: Not Regulated.

Hazard Class: Not Applicable.

UN Number: Not Applicable.

Packing Group: Not Applicable.

Note: No additional remark.

Marine Pollutant: No.

15. REGULATORY INFORMATION

U.S. TSCA Inventory Status: All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt.

Canadian DSL Inventory Status: All components of this product are either on the Domestic Substances List (DSL), the Non-Domestic Substances List (NDSL) or exempt.

Note: Not available.

U.S. Regulatory Rules

Ingredients	CERCLA/SARA - Section 302:	SARA (311, 312) Hazard Class:	CERCLA/SARA - Section 313:
Activated Carbon	Not Listed.	Not Listed.	Not Listed.

California Proposition 65: Not Listed.

MA Right to Know List: Listed.

New Jersey Right-to-Know List: Not Listed.

Pennsylvania Right to Know List: Listed.

WHMIS Hazardous Class:
NON-CONTROLLED

16. OTHER INFORMATION

Additional Information:

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Disclaimer:

NOTICE TO READER:

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Do not use ingredient information and/or ingredient percentages in this MSDS as a product specification. For product specification information refer to a Product Specification Sheet and/or a Certificate of Analysis. These can be obtained from your local Univar Sales Office.

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END OF MSDS

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