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## Hercules 40210

# HERCULES DARK CUTTING OIL 16OZ Instruction Manual

MODEL: 40210

## 1. Introduction

Hercules Dark Cutting Oil (Model 40210) is a high-performance lubricant formulated to enhance the efficiency and lifespan of cutting tools during various metalworking operations. This 16-ounce product is designed to reduce friction, dissipate heat, and improve surface finish, contributing to cleaner cuts and extended tool durability. This manual provides essential information for safe and effective use.



Image 1.1: A 16-ounce bottle of Hercules Dark Cutting Oil, Model 40210. The bottle is dark-colored with a label indicating the product name and brand.

## 2. Safety Information

Read and understand all safety precautions before using this product. Failure to follow these instructions may result in injury or property damage.

- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including safety glasses or goggles, chemical-resistant gloves, and protective clothing, to prevent skin and eye contact.
- **Ventilation:** Use in a well-ventilated area to avoid inhalation of vapors. If working in confined spaces,

ensure adequate local exhaust ventilation.

- **Skin Contact:** Avoid prolonged or repeated skin contact. If contact occurs, wash thoroughly with soap and water. Seek medical attention if irritation persists.
- **Eye Contact:** In case of eye contact, flush immediately with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek immediate medical attention.
- **Ingestion:** Do not ingest. If swallowed, do not induce vomiting. Call a poison control center or doctor immediately.
- **Flammability:** This product is combustible. Keep away from open flames, sparks, and hot surfaces. Store in a cool, dry place away from incompatible materials.
- **Spill Response:** Contain spills with inert absorbent material. Dispose of contaminated material in accordance with local regulations.

### 3. Setup

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Before applying Hercules Dark Cutting Oil, ensure your workspace and tools are prepared:

1. **Clean Workpiece:** Ensure the metal workpiece is clean and free from excessive dirt, grease, or rust.
2. **Tool Preparation:** Verify that cutting tools (e.g., drill bits, taps, dies, saw blades) are sharp and in good condition.
3. **Ventilation:** Confirm that the work area is adequately ventilated.
4. **PPE:** Don all necessary personal protective equipment as outlined in the Safety Information section.

### 4. Operating Instructions

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Apply Hercules Dark Cutting Oil directly to the cutting area to achieve optimal performance:

- **Drilling and Tapping:** Apply a generous amount of oil to the drill bit or tap before and during the cutting process. Reapply as needed to maintain lubrication and cooling.
- **Sawing:** For manual or power sawing, apply oil directly to the saw blade and the cutting line on the workpiece. Ensure continuous application for longer cuts.
- **Threading and Reaming:** Coat the threading die or reamer and the workpiece thoroughly with cutting oil before starting the operation.
- **General Machining:** For other machining operations, apply the oil directly to the point of contact between the tool and the workpiece. The oil should be visible and flowing to effectively cool and lubricate.
- **Application Method:** The oil can be applied using a brush, drip applicator, or by flooding the cutting area, depending on the specific application and equipment.

### 5. Maintenance

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Proper maintenance ensures the longevity of your tools and the effectiveness of the cutting oil:

- **Tool Cleaning:** After use, clean cutting tools to remove any residue from the oil and metal shavings. This prevents buildup and maintains tool sharpness.
- **Oil Storage:** Store the Hercules Dark Cutting Oil in its original container, tightly sealed, in a cool, dry, well-ventilated area away from direct sunlight and extreme temperatures.
- **Container Integrity:** Ensure the container is not damaged to prevent leaks or contamination.

## 6. Troubleshooting

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If you encounter issues during use, consider the following:

- **Poor Cut Quality / Excessive Tool Wear:**
  - Ensure sufficient oil is being applied to the cutting area.
  - Check if the cutting tool is sharp and appropriate for the material.
  - Verify that cutting speeds and feeds are correct for the material and tool.
- **Excessive Smoke or Heat:**
  - Increase the flow of cutting oil to the workpiece.
  - Reduce cutting speed or feed rate.
  - Ensure proper ventilation in the work area.
- **Oil Not Flowing Properly:**
  - Check for blockages in drip applicators or pumps if used.
  - Ensure the oil is stored at an appropriate temperature; extreme cold can increase viscosity.

## 7. Specifications

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Feature	Detail
Brand	Hercules
Model Number	40210
Item Weight	2 pounds
Product Dimensions	2.75 x 2.75 x 6.88 inches
Item Package Quantity	1
Color	Dark
ASIN	B00IG444LS

## 8. Storage and Disposal

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- **Storage:** Store in a cool, dry, well-ventilated area. Keep container tightly closed when not in use. Protect from physical damage. Keep away from incompatible materials and sources of ignition.
- **Disposal:** Dispose of contents and container in accordance with local, regional, national, and international regulations. Do not dispose of in drains or waterways. Consult local authorities for proper disposal methods for used cutting oils.

## 9. Warranty and Support

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For information regarding product warranty, technical support, or any inquiries not covered in this manual, please contact Hercules customer service. Refer to the product packaging or the official Hercules website for contact details.

