

Before using product, read and follow directions and precautions on product label.



# MATERIAL SAFETY DATA SHEET

ADDRESS:  
Muscle Products Corp.  
752 Kilgore Road  
Jackson Center, PA 16133  
U.S.A.

PRODUCT IDENTIFICATION	PRODUCT NAME: CO-10 Soluble Cutting Oil			EMERGENCY PHONE NO(S): CHEMTREC 24-HOURS 800-424-9300 OR 703-527-3887	
	CHEMICAL NAME: Lubricating Oil (Water Soluble)			CHEMICAL FAMILY: Hydrocarbons	
	SYNONYMS: Soluble Oil				
INGREDIENTS	MATERIALS OR COMPONENTS	% W	CAS NUMBER	CARCINOGEN OSHA OR IARC	
	Organic petroleum hydrocarbons		----- *	No	
	Petroleum lube oil		64741-96-4	No	
	* The specific chemical identity is being withheld as a trade secret under Par. 317.2, PA Right to Know. This substance is not hazardous but comprises of more than 3% of product.				
SHIPPING INFORMATION	Not restricted Classification: Lubricating Oil Hazard Class: Nonhazardous Packing Group: NA				
PHYSICAL PROPERTIES	BOILING POINT/RANGE UNDILUTED °C > 400 °F	MELTING POINT NA °C °F	FREEZING POINT NE °C °F	MOLECULAR WEIGHT (CALCULATED) NE	
	SPECIFIC GRAVITY (H <sub>2</sub> O = 1) 0.90-0.99 @ °C	VAPOR PRESSURE (mm Hg) < 0.01 @ 25 °C °F	VAPOR DENSITY (AIR = 1) < 1		
	SOLUBILITY IN H <sub>2</sub> O Soluble	% VOLATILES BY VOLUME NA	EVAPORATION RATE < 0.01 <input type="checkbox"/> Ether = 1 <input type="checkbox"/> Water = 1 <input type="checkbox"/> Butyl acetate = 1		
	APPEARANCE & ODOR Amber, low viscosity liquid, petroleum odor		OTHER		
FIRE & EXPLOSION DATA	FLASH POINT UNDILUTED & TEST METHOD °C ~ 300 °F   COC		FLAMMABLE LIMITS LOWER NE%   UPPER NE%		AUTOIGNITION/FIREPOINT UNDILUTED °C °F
	EXTINGUISHING MEDIA <input type="checkbox"/> Water Spray <input checked="" type="checkbox"/> Water fog <input type="checkbox"/> Water stream <input checked="" type="checkbox"/> CO <sub>2</sub> <input checked="" type="checkbox"/> Dry chemical <input type="checkbox"/> Alcohol foam <input checked="" type="checkbox"/> Foam <input type="checkbox"/> Earth or sand				
	SPECIAL FIRE FIGHTING PROCEDURES <input type="checkbox"/> Do not enter building <input type="checkbox"/> Allow fire to burn <input type="checkbox"/> Water may cause frothing <input type="checkbox"/> Do not use water <input checked="" type="checkbox"/> Other (specify): Wear self-contained breathing apparatus in confined areas.				
	UNUSUAL FIRE & EXPLOSION HAZARDS <input type="checkbox"/> Dust explosion hazard <input type="checkbox"/> Sensitive to shock <input type="checkbox"/> Contamination <input type="checkbox"/> Temperature <input checked="" type="checkbox"/> Other (specify): Flows freely when hot; treat as oil when exposed to fire.				
REACTIVITY DATA	STABILITY <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable		CONDITIONS CONTRIBUTING TO INSTABILITY <input type="checkbox"/> Thermal decomposition <input type="checkbox"/> Photo degradation <input type="checkbox"/> Polymerization <input type="checkbox"/> Contamination		
	INCOMPATIBILITY – Avoid contact with <input type="checkbox"/> Strong acids <input type="checkbox"/> Strong alkalis <input checked="" type="checkbox"/> Strong oxidizers <input type="checkbox"/> Other (specify):				
	HAZARDOUS DECOMPOSITION PRODUCTS – THERMAL AND OTHER (list) CO, CO <sub>2</sub> , and other hydrocarbons when combustion is not complete				
	CONDITIONS TO AVOID <input type="checkbox"/> Heat <input checked="" type="checkbox"/> Open flames <input type="checkbox"/> Sparks <input type="checkbox"/> Ignition sources <input checked="" type="checkbox"/> Other (specify): Molten temperatures				

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<b>SPILL OR LEAK</b>	<b>STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED</b> <input type="checkbox"/> Flush with water <input checked="" type="checkbox"/> Absorb with sand or inert material <input type="checkbox"/> Neutralize <input type="checkbox"/> Sweep or scoop up & remove <input type="checkbox"/> Keep upwind; evacuate enclosed spaces <input checked="" type="checkbox"/> Prevent spread of spill <input type="checkbox"/> Dispose of immediately <input type="checkbox"/> Other (specify):								
	<b>WASTE DISPOSAL METHOD</b> – Consult federal, state, or local authorities for proper disposal procedures. <b>All disposals must comply with federal, state and local regulations.</b>								
<b>TOXICITY INFORMATION</b>	<b>CONDITIONS TO AVOID</b> <b>Excessive contact</b>								
	<b>PRIMARY ROUTES OF ENTRY</b> <input checked="" type="checkbox"/> Inhalation <input checked="" type="checkbox"/> Skin contact <input type="checkbox"/> Other (specify):								
This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right-to-Know Act of 1986 (40 CFR 372): <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">CAS#</th> <th style="text-align: left;">CHEMICAL NAME</th> <th style="text-align: left;">PERCENT BY WEIGHT</th> </tr> </thead> <tbody> <tr> <td colspan="3">           This product has been used for years with no known ill effects. It contains no known carcinogens or mutagens as defined by OSHA or IARC.         </td> </tr> </tbody> </table>				CAS#	CHEMICAL NAME	PERCENT BY WEIGHT	This product has been used for years with no known ill effects. It contains no known carcinogens or mutagens as defined by OSHA or IARC.		
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<b>HEALTH HAZARD INFORMATION</b>	<b>RATINGS</b>	<b>HMIS</b> Health ..... 1 Flammability ..... 1 Physical Hazard ... 0 PPE ..... B	<b>NFPA</b> Health ..... 1 Flammability .... 1 Reactivity ..... 0 Special ..... 0						
	<b>EFFECTS OF EXPOSURE</b>	<b>PERMISSIBLE EXPOSURE LIMIT (Specify if TLV/TWA or Ceiling [c])</b> ACGIH 5 mg/m3 TLV	<b>OSHA PEL</b> 500 ppm	<b>OTHER</b>					
		<b>IRRITATION</b> <input checked="" type="checkbox"/> Skin <input type="checkbox"/> Severe <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Mild (Transient) <input checked="" type="checkbox"/> Eye <input type="checkbox"/> Severe <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Mild (Transient)							
		<b>CORROSIVITY</b> <input type="checkbox"/> Skin <input type="checkbox"/> 4 hrs. (DOT) <input type="checkbox"/> 24 hrs (CPSC) <input type="checkbox"/> Eye <input type="checkbox"/> May cause blindness <input checked="" type="checkbox"/> Not corrosive							
		<b>SENSITIZATION</b> <input type="checkbox"/> Skin <input type="checkbox"/> Respiratory <input checked="" type="checkbox"/> None		<b>INHALATION EFFECTS</b> <input checked="" type="checkbox"/> Narcotic effect <input type="checkbox"/> Cyanosis <input type="checkbox"/> Asphyxiant					
		<b>LUNG EFFECTS (specify):</b>							
		<b>OTHER (specify):</b> <input checked="" type="checkbox"/> Repeated contact-skin defatter <input type="checkbox"/> Other (specify):							
	<b>EMERGENCY FIRST AID</b>	<b>INGESTION</b> <input type="checkbox"/> Induce vomiting <input checked="" type="checkbox"/> Do NOT induce vomiting <input type="checkbox"/> Give plenty of water <input checked="" type="checkbox"/> Get medical attention <input checked="" type="checkbox"/> Other (specify): <b>Aspiration into the lungs may cause chemical pneumonia.</b>							
		<b>DERMAL</b> <input checked="" type="checkbox"/> Flush with soap & water <input type="checkbox"/> Get medical attention <input checked="" type="checkbox"/> Contaminated clothing-remove & launder <input type="checkbox"/> Contaminated shoes-destroy <input type="checkbox"/> Other (specify):							
		<b>EYE CONTACT</b> <input checked="" type="checkbox"/> Flush with plenty of water for at least 15 minutes <input checked="" type="checkbox"/> Get medical attention <input type="checkbox"/> Other (specify):							
<b>INHALATION</b> <input checked="" type="checkbox"/> Remove to fresh air <input checked="" type="checkbox"/> If not breathing, give artificial respiration <input checked="" type="checkbox"/> Give oxygen <input checked="" type="checkbox"/> Get medical attention <input type="checkbox"/> Other (specify):									

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<b>SPECIAL PROTECTION INFORMATION</b>	<b>VENTILATION REQUIREMENTS – Always maintain exposure below permissible exposure limits</b> <input type="checkbox"/> Consult an industrial hygienist or environmental health specialist <input type="checkbox"/> Local exhaust <input checked="" type="checkbox"/> Use with adequate ventilation <input type="checkbox"/> Check for air contamination & oxygen deficiency <input type="checkbox"/> Other (specify):			
	<b>EYE</b> <input checked="" type="checkbox"/> Safety glasses <input type="checkbox"/> Face shield <input type="checkbox"/> Goggles <input type="checkbox"/> Other:		<b>HAND (Glove Type)</b> <input type="checkbox"/> Polyvinyl chloride <input checked="" type="checkbox"/> Neoprene <input type="checkbox"/> Butyl rubber <input type="checkbox"/> Polyvinyl alcohol <input type="checkbox"/> Natural rubber <input type="checkbox"/> Polyethylene <input checked="" type="checkbox"/> Other (specify): <b>Buna-N</b>	
	<b>RESPIRATOR TYPE – Use only NIOSH/MESA approved equipment</b> <input type="checkbox"/> Self-contained <input type="checkbox"/> Supplied air <input type="checkbox"/> Can or cartridge gas or vapor <input type="checkbox"/> Filter-dust, fume, mist <input checked="" type="checkbox"/> Other (specify): <b>If TLV exceeded, use respirator with organic filter.</b>			
	<b>OTHER PROTECTIVE EQUIPMENT</b> <input type="checkbox"/> Rubber boots <input type="checkbox"/> Apron <input checked="" type="checkbox"/> Other (specify): <b>None</b>			
<b>SPECIAL PRECAUTIONS</b>	<b>PRECAUTIONARY NOTES</b> <input checked="" type="checkbox"/> Wash thoroughly after handling <input checked="" type="checkbox"/> Do not get in eyes or on clothing <input checked="" type="checkbox"/> Do not breathe dust, vapor, mist, gas <input checked="" type="checkbox"/> Keep container closed <input checked="" type="checkbox"/> Keep away from sparks & open flames <input type="checkbox"/> Store in tightly closed containers <input type="checkbox"/> Do not store near combustibles <input type="checkbox"/> Keep from contact with clothing & other combustible materials <input type="checkbox"/> Empty container may contain hazardous residues <input type="checkbox"/> Use explosion-proof equipment <input type="checkbox"/> Other (specify):			
	<b>OTHER HANDLING AND STORAGE CONDITIONS</b> <b>Use usual, good hygienic practices. Do not store in temperatures above 130oF.</b>			
<b>PREPARED BY:</b> <b>Amy Dent</b>		<b>DATE:</b> <b>9-7-05</b>	<b>REV. NO.</b> <b>1</b>	<b>PHONE:</b> <b>814-786-0166</b>
<b>PLEASE NOTE:</b> The information and recommendations contained herein are based upon data believed to be correct. However, since data, safety standards and government regulations are subject to change, and the conditions of handling and use, or misuse, are beyond our control, Muscle Products Corp. makes no warranty, either express or implied, with respect to the information contained herein and disclaims all liability for reliance thereon. User should satisfy himself/herself that he/she has all current data relevant to the particular use.				