

Semi-Synthetic Coolant

VP 4400

Semi-Synthetic Coolant is a multi-purpose semi-synthetic machining and grinding coolant. Semi-Synthetic Coolant has superior cooling and wetting properties that result in longer tool & wheel life and can be used on a variety of metals, including stainless steel. Typical dilution ratios are 10 parts water to 1 part VP 4400 and 20 parts water to 1 part Semi-Synthetic Coolant.

The outstanding physical characteristics of this product coupled with the cost/performance function ratio justify looking at replacing your present machining fluid.

To obtain samples and pricing information, contact your Technical Sales Representative.

PHYSICAL CHARACTERISTICS

1. Color	Blue		
2. Odor	Characteristic		
3. Appearance:	Clear, Liquid		
4. Viscosity @	40°C Cst 21.5 40°F SUS 100		
5. A.P.I. Gravity	60°F N/A		
6. Specific Gravity 60°F	1.014		
7. Density (LBS/GAL)	8.45		
8. pH 10:1 w/tap water 17 grain	9.00-9.90		
9. Pour Point	32°F		
10. Refractometer Readings:			
<u>5:1</u>	<u>10:1</u>	<u>15:1</u>	<u>20:1</u>
10.0	5.0	3.75	2.5
Multiplier = 2.0			

Wellsaw

Tiger Tooth Coolant VP-4400 mixing instructions

Mix solution in bucket then pour into coolant tank

Model 58BW (4 gallon coolant system)

-mix 1-1/2 pints of concentrate with 3 gallons of water

All other models (8 gallon coolant system)

-mix 1/2 gallon of concentrate with 7 gallons of water

Section 4 First Aid Measures

Eyes: Flush eyes with running water for at least 15 minutes. If redness, burning, blurred vision or irritation persists, transport to nearest medical facility for additional treatment.

Skin: Flush skin with water, wash with soap and water. If irritation occurs, get medical attention. Remove contaminated clothing. Do not reuse clothing until cleaned. If material is injected under the skin, transport to the nearest medical facility for additional treatment. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.

Ingestion: Do NOT induce vomiting and obtain medical attention. Have victim rinse mouth out with water. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If the victim has difficulty breathing or tightness of the chest, is dizzy, vomiting or unresponsive, give oxygen with rescue breathing or CPR as required and transport to the nearest medical facility.

Section 5 Fire Fighting Measures

Flammable Properties:

Flash point: none (ASTM D56) Flammable limits in air: N/A Auto ignition temperature: N/A

Extinguishing media: CO₂, dry chemical, foam

Special firefighting measure:

The material as received will not support combustion, however its residues may; therefore, procedures for an oil fire should be followed. Use self-contained breathing apparatus. Use foam or dry chemical to extinguish fire. Water may be used only to keep surrounding containers cool. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Section 6 Accidental Release Measures

- Eliminate ignition sources and ventilate area.
- Absorb spillage with inert absorbent material.
- Contain spill and keep from entering waterways or sewers.
- Advise EPA/state agency if required.
- Use proper personal protective equipment for clean-up.
- Treat contaminated absorbent same as spilled product.

Section 7 Handling and Storage

Handling and Storage Precautions: Avoid heat, open flames, including pilot lights, and strong oxidizing agents. Use general ventilation to prevent vapor accumulation. Ground all handling equipment to prevent sparking. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Have appropriate fire extinguishers and spill clean-up equipment in or near storage area.

Work/Hygienic Practices: Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet. Launder contaminated clothing before reuse. Properly dispose of contaminated leather articles such as shoes or belts that cannot be decontaminated. Contaminated leather articles including shoes cannot be decontaminated and should be destroyed to prevent reuse.

Section 8 Personal Protection/ Exposure Controls

Engineering Controls: Use adequate ventilation to keep vapors and mists of this material below applicable standards.

Respiratory Protection: If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of the OSHA Respiratory Protection Standard, 29 CFR 1910.134.

Skin Protection: Use protective clothing that is chemically resistant to this product. Acceptable materials for gloves and aprons are: neoprene, nitrile rubber or viton.

Eye Protection: Use safety glasses or goggles. Have suitable eye wash water available.

Other/General Protection: For mists and vapors: Air Purifying, organic vapor cartridge, NIOSH approved respirator. Use self-contained breathing apparatus for environments with unknown concentrations or emergency situations.

Chemical Name

Severely Hydrotreated Naphthenic Oil
Triethanolamine

OSHA TWA (mg/m³)

5 (Mist in Air)

ACGIH TWA (mg/m³)

5

Section 15 Regulatory Information

U.S. Federal Regulatory Information:

SARA 302 Threshold Planning Quantity: N/A

SARA 304 Reportable Quantity: N/A

SARA 311 Categories:

Acute Health Effects:	Yes
Chronic Health Effects:	None
Fire Hazard:	No
Sudden Release of Pressure Hazard:	No
Reactivity Hazard:	No

EPA/TSCA Inventory: The components of this product are listed on the EPA/TSCA inventory of chemicals.

EPA Hazard Classification Code: Not applicable

CERCLA: No chemicals in this product are subject to the reporting requirements of CERCLA.

SARA Title III - Section 313 Supplier Notification: No Chemicals in this product exceed the DE minimums reporting level established by SARA Title III, Section 313 and 40 CFR 372.

WHMIS Classification: WHMIS controlled. Class D; Division 2, Subdivision B: otherwise causing toxic effects.

Other Regulations: All components of this formulation are listed on the CEPA-DSL (Domestic Substance List)

Section 16 Other Information

NFPA Hazard Rating:

Health:	1	Slight
Flammability:	0	Negligible
Reactivity:	0	Negligible

SDS Dated: 05/05/15

SDS Revision Date: 05/05/15

*Threshold Limit Value/Personal Exposure Limit

N/A = Not Applicable

N/E = Not Established

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