

AF Fluids & Lubes TM

AF 2000 TM

Material Safety Data Sheet

PROPERTIES

Appearances – concentrate	Blue Liquid
Appearances – dilution	Translucent Blue
Odor	Bland
Residual Film	Soft, Fluid
pH @20:1 (5%)	9.0 ± 0.2
Specific Gravity @ 60 F	1.0 ± 0.03
Lbs/Gallon	8.34 ± 0.1
Flash Point, PMCC, F	None

CONCENTRATION AF 2000

CONCENTRATION	4%	5%	6%	7%	8%	9%	10%
(1:25)	(1:20)	(1:17)	(1:14)	(1:12)	(1:11)	(1:10)	
REFRACTOMETER							
READING	1.2	1.5	1.8	2.1	2.4	2.7	3.0

An optical refractometer may be used for determining concentration.

RECOMMENDED STARTING DILUTIONS

Centerless, ID, OD Surface Grinding	25:1 (4%)
Milling, Drilling, Turning	20:1 (5%)
Tapping, Reaming, Sawing	10:1 (10%)

When mixing coolant, it is best to use an automatic proportioner which accurately and thoroughly mixes coolant.

Always replenish coolant and water, not just coolant or water. **Never** add coolant concentrate directly to the sump.

All reasonable care has been taken to ensure that the above information is accurate as of the date of printing. 3/02

MATERIAL SAFETY DATA SHEET

Product Name: **AF 2000** Effective Date: 05-27-03 Date Printed: 01/13/06

HMIS Rating:

Health: 1 Flammability: 0 Reactivity: 0 Personal Protection: B

1) Ingredients (% wt., unless otherwise noted)

CHEMICAL NAME

Heavy Naphthenic, severely hydrotreated	CAS#	%
Chemically neutralized oil	64742-52-5	10-20

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not "Hazardous" per this OSHA Standard may be listed.

Where proprietary ingredient shows, the identity may be made available as provided in the standard.

2) PHYSICAL DATA:

Boiling point:	215 F	pH:	9.0 ± 0.2
Vapor Pressure:	<1	Sp. Gravity: @60 F.	1.0 ± 0.03
Vapor Density:	<1	Appearance:	BLUE Liquid,
Solubility In Water:	Complete	Odor:	BLAND

3) FIRE AND EXPLOSION HAZARD DATA:

Flash Point:	None	Method Used:	PMCC
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FLAMMABLE LIMITS:

LFL:	None	UFL:	None
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EXTINGUISHING MEDIA: Foam or dry chemical

FIRE & EXPOSION HAZARDS: Intense heat may cause unopened drums to rupture. Cool fire-exposed surfaces with water.

FIRE-FIGHTING EQUIPMENT: Use NIOSH approved self-contained breathing apparatus.

4) REACTIVITY DATA:

STABILITY: (conditions to avoid) Stable under normal storage and use conditions

INCOMPATIBILITY: (specific materials to avoid) Strong acids or bases

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of c

HAZARDOUS POLYMERIZATION: Will not occur

5) ENVIRONMENTAL AND DISPOSAL INFORMATION:

Action to take for spills/leaks: Contain spill, collect onto inert absorbent. Do not flush into drain or sewers. Place in a DOT approved container for disposal.

Disposal method: Dispose of according to federal, state and local regulations.

6) HEALTH HAZARD DATA:

EYE: Contact may cause irritation. **SKIN CONTACT:** Prolonged or repeated contact may cause drying and defatting of the skin, leading to irritation.

SKIN ABSORPTION: Not likely to occur **INGESTION:** Small amounts ingested incidental to normal handling are not likely to cause injury; Large amounts ingested may cause injury.

INHALATION: Inhalation of vapors or mist may be irritating to respiratory passages.

SYSTEMIC: (other target organ) EFFECTS: None known

TERATOLOGY(birth defects): None Known **REPRODUCTIVE EFFECTS:** None Known

MUTAGENICITY (effects on genetic material): None Known

CARCINOGENICITY: LARC: NO NTP: NO OSHA: NO

7) FIRST AID: EYES: Flush immediately with water for 15 minutes. Contact a physician.

SKIN: Wash with soap and water. **INGESTION:** Contact a physician.

INHALATION: Remove to fresh air. If symptoms persist, consult a physician

NOTE TO PHYSICIAN: Treatment of overexposure should be directed toward the control of symptoms and the clinical condition.

8) HANDLING PRECAUTIONS:

EXPOSURE GUIDELINE: Naphthenic, severely hydrotreated chemically neutralized oil (as mist) OSHA PEL: 5 mg/m³ Triethanolamine ACGIH TLV: 5 mg/m³

VENTILATION: General room ventilation should be satisfactory. Local exhaust ventilation may be necessary if misting is generated.

RESPIRATORY PROTECTION: None normally required. If mist is in excess of 5mg/m³, use NIOSH-approved respirator.

SKIN PROTECTION: Oil-resistant gloves for prolonged or repeated contact

EYE PROTECTION: Safety glasses or goggles

9) ADDITIONAL INFORMATION:

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Product contains Amines. Sodium Nitrite or other nitrosating agents should not be added to this product. This step will prevent the formation of nitrosamines which are known to be animal carcinogens. Launder contaminated clothing before reuse. Normal precautions common to good manufacturing practices should be followed in handling and storing. Store away from food. Wash hands before eating, drinking or smoking. Store indoors in cool dry areas. Use as directed.

REGULATORY INFORMATION: (not meant to be all-inclusive—selected regulations represented).

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial and local laws and regulations. See MSD Sheet for health and safety information.

TOXIC SUBSTANCES CONTROL ACT (TSCA):

The components of this product are listed on the TSCA inventory.

This product contains the toxic chemical or chemicals listed below, which are subject to the supplier notification requirements of Section 313 of the Superfund Amendments and Reauthorization Act of 1986 ("SARA") and the requirement of 40 CFR part 372. None

This notice must not be detached from the foregoing MSDS. If the MSDS is copied for any reason, including distribution, this notice must also be copied and accompany all redistributed MSDS'. Failure to do so may subject you to penalties under law.

This product contains the following ingredient(s) which are regulated under the Clean Air Act Section 112 hazardous air pollutants and is subject to all reporting requirements of CERCLA(Superfund). None

10)TRANSPORTATION INFORMATION: PROPER SHIPPING NAME: Non-regulated

DOT HAZARD CLASS: Non-regulated

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