bluesky FLUID SOLUTIONS

HD OAT ELC

PREMIUM COOLANT & ANTIFREEZE



CORROSION, CAVITATION, SCALE & DEPOSIT PROTECTION

ALL SEASON FREEZE & BOILOVER PERFORMANCE

NITRITE FREE & 2-ETHYLHEXANOIC ACID FREE OAT TECHNOLOGY

1 MILLION MI 20,000 HRS 8 YRS*

BLUE SKY® HD OAT ELC PREMIUM COOLANT AND ANTIFREEZE is an ethylene glycol-based formula for cooling systems requiring nitrite free extended life coolant technology. It combines organic inhibitors and proprietary scale control technology to provide long-lasting cooling system protection, optimized heat transfer performance, and extended service life across on-road, off-road, and industrial applications.

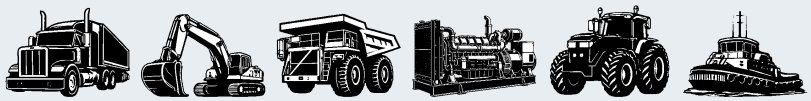
BLUE SKY® HD OAT ELC is nitrite, 2-ethylhexanoic acid (2-EHA), phosphate, borate, silicate, and amine free. With proper maintenance*, provides cooling system protection without Supplemental Coolant Additives (SCAs) or chemically charged filters for up to 1 million miles on-road, or up to 8 years / 20,000 hours in off-road and stationary service, whichever occurs first.

BENEFITS

- **THERMAL PERFORMANCE:** Proprietary scale-control and surfactant technology prevents deposits and scale buildup while eliminating dropout and gel formation to ensure optimum heat transfer. Engineered specifically for high-temperature platforms equipped with EGR and SCR emission-control systems.
- **MULTI-COMPONENT PROTECTION:** Delivers long-lasting defense against corrosion, erosion, and cavitation for all cooling system metals, wet sleeve cylinder liners, and water pumps.
- **COMPATIBILITY:** Maintains full corrosion protection when mixed with other coolants, provided contamination levels remain below **25% by volume.** Provides excellent protection of plastics, elastomers, and silicone seals.
- **LIFE-OF-ENGINE SERVICE*:** Eliminates the need for SCAs or chemically charged filters. Provides complete system protection up to 1,000,000 miles / 20,000 hours / 8 years.



APPLICATION:



MEETS THE PERFORMANCE REQUIREMENTS OF:

- ASTM D3306, D6210, D7583, D4340, D4985
- TMC RP338B, RP364A, RP351 (COLOR)
- SAE J1034
- JIS K2234, BS 6580, AS/NZS 2108.1 TYPE A

- CUMMINS CES 14439, CES 14603, CES 14636
- CATERPILLAR EC-1
- DETROIT DIESEL DFS 93K217
- FREIGHTLINER 48-22880
- MERCEDES-BENZ DBL 7700, 326.3, DTFR 29D110
- NAVISTAR MPAPS B-1 TYPE IIIA, MPAPS B-6826
- VOLVO/MACK STD 418-0005
- CNH MAT 3620 (EG-3/EG-4), MAT 3724
- JOHN DEERE H24A1, H24C1
- PACCAR CS0185
- DAF 74002
- SCANIA TI 2-98 0813 TB
- KOMATSU KES 07.892
- DEUTZ DQC CB-14
- MAN 324 TYPE SNF
- MTU MTL 5048
- WAUKESHA 4-2429H
- JCB STD00088

PERFECT FIT FOR:

- MARINE, RAIL & POWER GEN SYSTEMS
- All GAS, DIESEL, NG, & CNG ENGINES
- STATIONARY ENGINE COOLING SYSTEMS
- CLASS 1-8 MIXED FLEETS
- ON-/OFF-ROAD HD
- AG & MINING MACHINERY

AGCO | CASE/NEW HOLLAND | CATERPILLAR | CUMMINS | DAF | | DEUTZ | FENDT
DETROIT DIESEL | FORD POWER STROKE | FREIGHTLINER | HINO | JCB | ISUZU
INTERNATIONAL | NAVISTAR | JOHN DEERE | KENWORTH | KOBELCO | MTU
KOMATSU | KUBOTA | VOLVO | MACK | MERCEDES-BENZ | PACCAR | PERKINS
PETERBILT | SCANIA | MAN | TEREX | THERMO KING
WARTSILA | WAUKESHA WESTERN STAR

FREEZE &BOILOVER PROTECTION CHART

COOLANT/ WATER RATIO	FREEZE PERFORMANCE	BOILOVER PERFORMANCE
40/60	-13°F (-25°C)	260°F (127°C)
50/50	-34.6°F (-37°C)	265°F (129°C)
60/40	-62°F (-52°C)	270°F (132°C)

At sea level atmospheric pressure with a 15 psi pressure cap. The boiling point decreases by about 2˚F per 1,000 ft of elevation gain and increases by approximately 2.5˚F for each additional psi of system pressure

DILUTION & PERFORMANCE: Formulated to provide complete corrosion protection at a minimum concentration of **33% by volume**. For optimum thermal and anti-corrosive performance, maintain system concentration between **40%–60%** by volume, with a **50% dilution ratio** ideal for most operating climates.

Recommended for use where **NITRITE FREE HD OAT ELC** is specified or permitted by the OEM or selected by the operator for compatible service fill. **Always consult the owner's manual before use.**

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HD OAT ELC

PREMIUM COOLANT & ANTIFREEZE

PRODUCT INFORMATION	METHOD	TYPICAL VALUES		
CONCENTRATION	---	FULL STRENGTH	50/50 MIX	40/60 MIX
APPEARANCE / COLOR	Visual	RED	RED	RED
pH	D1287	8.0 - 9.0 @50% vol.	8.0 - 9.0	8.0 - 9.0
SPECIFIC GRAVITY at 60/60° F	D1122, D5931	1.110 - 1.145	1.065 - 1.080	1.045 - 1.080
RESERVE ALKALINITY	D1121	12 min	6 min	4.8 min
ASH CONTENT	D1119	5.0 Wt.% max	2.5 Wt.% max	2.0 Wt.% max
FREEZE POINT	D1177, D6660	-34.6°F (-37°C) @ 50% VOL	-34.6°F (-37°C)	-13°F (-25°C)
BOILING POINT**	D1120	325°F (163°C)	226°F (108°C)	223°F (106°C)
STORAGE	---	10 Years when unopened and stored properly | 3 years after opening		

**** At Atmospheric Pressure**

FS PART #	UNIT	PACK / SIZE	PACK DIMENSIONS	~UNIT Wt. (Lbs.)	UNITS / PALLET	PALLET / TRUCK	~PALLET WEIGHT***
BSHDOATCNRD01	Case	6/1 Gal	16" L x 12.5" W x 12.5" H	59	36	20	2,174
BSHDOATCNRD05	Pail	5 Gal	12.5" Dia x 15" H***	49	45	20	2,255
BSHDOATCNRD55	Drum	55 Gal	23.5" Dia. X 34.5" H	569	4	20	2,326
BSHDOATCNRD275	Tote	275 Gal	48" L x 40" W x 46" H	2,692	1	14	2,692
BSHDOATCNRD	Bulk	4,850 Gal	---	45,158	---	---	---

50/50 PART #	UNIT	PACK / SIZE	PACK DIMENSIONS	~UNIT Wt. (Lbs.)	UNITS / PALLET	PALLET / TRUCK	~PALLET WEIGHT***
BSHDOAT50RD01	Case	6/1 Gal	16" L x 12.5" W x 12.5" H	55	36	20	2,030
BSHDOAT50RD05	Pail	5 Gal	12.5" Dia x 15" H***	47	45	20	2,165
BSHDOAT50RD55	Drum	55 Gal	23.5" Dia. X 34.5" H	537	4	20	2,198
BSHDOAT50RD275	Tote	275 Gal	48" L x 40" W x 46" H	2,595	1	14	2,595
BSHDOAT50RD	Bulk	4,950 Gal	---	44,273	---	---	---

***Total weights include estimated tare weights: 50 lb per pallet, 0.45 lb per 1-gal bottle, 2.25 lb per 5-gal pail, 45 lb per 55-gal drum, and 135 lb per tote/IBC.**

FULL STRENGTH | FS



PN: BSHDOATCNRD275
275 Gallon FS Tote
UPC:850081544203



PN: BSHDOATCNRD05
5 Gallon FS Pail
UPC:850081544210



PN: BSHDOATCNRD55
55 Gallon FS Drum
UPC:850081544197



PN: BSHDOATCNRD01
Gallon FS Bottle
UPC:850081544180
CASE UPC:10850081544187
CASE SCC14: 20850081544184

50/50 PREDILUTED



PN: BSHDOAT50RD275
275 Gallon 50/50 Tote
UPC:850081544173



PN: BSHDOAT50RD05
5 Gallon 50/50 Pail
UPC:850081544166



PN: BSHDOAT50RD55
55 Gallon 50/50 Drum
UPC:850081544159



PN: BSHDOAT50RD01
1 Gallon 50/50 Bottle
UPC:850081544142
CASE UPC: 10850081544149
CASE SCC14:20850081544146

ADDITIONAL INFORMATION

TESTING RECOMMENDATIONS:

- For proper freeze and boilover protection and to maintain proper system performance, use a digital refractometer in accordance with ASTM D3321 to determine ethylene glycol percent or concentration by volume.
- Semiannual coolant analysis is recommended as part of routine maintenance to evaluate inhibitor levels, pH, reserve alkalinity/buffering capacity, coolant degradation, and corrosion products.

STORAGE, HANDLING, SAFETY, & ENVIRONMENTAL RECOMMENDATIONS:

- Keep in original packaging. Store indoors at ambient temperatures, shielded from direct sunlight. Minimize prolonged exposure to temperatures above 95°F (35 °C). Maintains maximum stability for up to 10 years when properly stored in an unopened, sealed container. Agitate thoroughly before use or dilution.
- Formulated with virgin ethylene glycol; keep away from children and animals. A bittering agent is added to reduce the risk of accidental ingestion. Review the Safety Data Sheet (SDS: FS: 108879, & 50/50: 74485) at www.BLUESKYDEFNA.com for full health, safety, and disposal guidance. Always dispose of used coolants in accordance with local, state, and federal regulations.

FLUID MAINTENANCE PROGRAM & TECHNICAL SUPPORT

- ***Requires proper maintenance including a complete cooling system flush and initial fill with BLUE SKY® HD OAT Extended Life Coolant/Antifreeze, followed by top-off as needed with BLUE SKY® HD OAT 50/50 Prediluted Coolant/Antifreeze or properly diluted BLUE SKY® HD OAT Concentrate.
- The BLUE SKY technical team can provide Fluid Maintenance Program Support to help maintain equipment uptime through routine fluid analysis designed to confirm coolant condition and monitor maintenance practices to ensure that the maximum coolant life is achieved.
- For Quality & Tech Support, contact: **QC@blueskydefna.com**

BLUE SKIES AHEAD™

PURE PERFORMANCE IN EVERY POUR

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