HD SCA PRECHARGED

PREMIUM COOLANT & ANTIFREEZE



CORROSION, CAVITATION, SCALE & DEPOSIT PROTECTION

ALL SEASON FREEZE & BOILOVER PERFORMANCE

LOW SILICATE & PHOSPHATE FREE NO INITIAL SCA REQUIRED

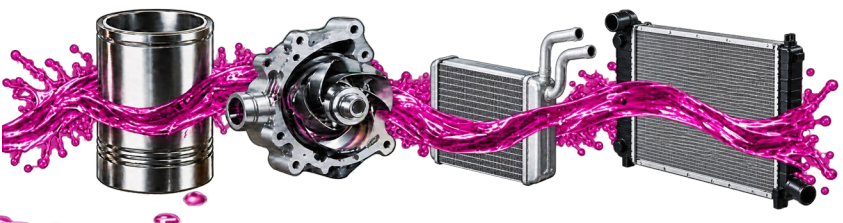
LIFE-OF-ENGINE*. SCA TEST INTV: 50K MI / 1K HRS 1 YR or ODI

BLUE SKY® HD SCA PRECHARGED PREMIUM COOLANT & ANTIFREEZE is an ethylene glycol-based formula for cooling systems requiring Fully Formulated HD phosphate free coolant technology. Precharged with advanced Supplemental Coolant Additives (SCAs) and proprietary scale control technology, it provides cooling system protection and optimized heat transfer performance across on-road, off-road, and industrial applications.

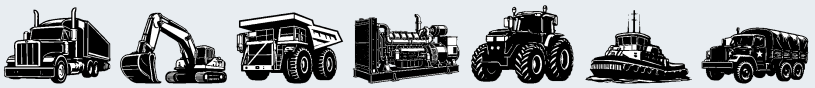
BLUE SKY® HD SCA PRECHARGED requires no SCAs at initial fill and ensures proper inhibitor balance at every top-off. With proper maintenance* and the use of high-quality SCAs or chemically charged filters, provides comprehensive **LIFE-OF-ENGINE PROTECTION***.

BENEFITS

- **THERMAL PERFORMANCE:** Proprietary scale control and surfactant technology prevents insulating scale and deposit buildup, maintaining optimum heat transfer while maximizing the coolant's inherent freeze and boilover protection.
- **MULTI-COMPONENT PROTECTION:** Advanced Precharged inhibitor technology delivers defense against corrosion, erosion, and cavitation for all cooling system metals, wet-sleeve cylinder liners, and water pumps, while eliminating SCA mixing errors at initial fill.
- **COMPATIBILITY:** Delivers excellent protection for all non-metallic components, including plastics, elastomers, and silicone seals.
- **LIFE-OF-ENGINE PROTECTION*:** Delivers complete system protection for the operational life of the engine when properly maintained using high-quality SCAs or chemically charged filters only as indicated by regular testing every 50,000 MI / 1,000 HRS / 1 YR, or at every oil drain interval (ODI).



APPLICATION:



MEETS THE PERFORMANCE REQUIREMENTS OF:

- ASTM D3306, D6210, D4340, D4985
- TMC RP329
- SAE J1941

- CUMMINS CES 14603, CES 14439, 90T8-4, SB 3666132
- CATERPILLAR DEAC
- DETROIT DIESEL DFS 7SE298, 93K217
- FREIGHTLINER 48-22880
- NAVISTAR MPAPS B-1 TYPE II
- MACK 014G817004
- PACCAR CS0185
- U.S. FEDERAL CID A-A-52624A, A-A870A
- MILITARY MIL-A-46153C, MIL-A-11755E
- JOHN DEERE H24, JDS-G135, 8650-5
- MTU MTL 5048
- DEUTZ DQC CA-14
- WAUKESHA 4-1794D
- EMD M.I. 1748E
- CNH EG-3, EG-4
- FORD ESE-M97B44-A
- FORD HD ESE-M97B18-C
- CHRYSLER / FCA MS-7170
- GM 6038M, 1825, 1899M

PERFECT FIT FOR:

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

CUMMINS | CATERPILLAR | DETROIT DIESEL | NAVISTAR | INTERNATIONAL VOLVO | MACK | FREIGHTLINER | KENWORTH | PETERBILT | PACCAR | WESTERN STAR | MERCEDES-BENZ | AGCO | CASE/NEW HOLLAND | JOHN DEERE | FENDT DEUTZ | DAF | MAN | SCANIA | PERKINS | MTU | KOBELCO | KUBOTA | JCB TEREX | DOOSAN | WARTSILA | WAUKESHA | EMD | THERMO KING | CARRIER TRANSICOLD | YANMAR | BOBCAT | LINK-BELT | CHRYSLER / FCA | FORD GENERAL MOTORS | AM GENERAL | U.S. MILITARY

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 **FULLY FORMULATED HD SCA PRECHARGED coolant** 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 SCA PRECHARGED

PREMIUM COOLANT & ANTIFREEZE

PRODUCT INFORMATION	METHOD	TYPICAL VALUES		
CONCENTRATION	---	FULL STRENGTH	50/50 MIX	40/60 MIX
APPEARANCE / COLOR	Visual	FUCHSIA	FUCHSIA	FUCHSIA
pH	D1287	10.0 – 10.95 @50% vol.	10.0 – 10.95	10.0 – 10.95
SPECIFIC GRAVITY at 60/60° F	D1122, D5931	1.110 - 1.145	1.065 - 1.080	1.045 - 1.080
RESERVE ALKALINITY	D1121	5.0 min	2.50 min	2.0 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	354.5°F (179.2°C)	227°F (108.3°C)	223°F (106°C)
STORAGE	---	5 Years when unopened and stored properly | 2 years after opening		

**** At Atmospheric Pressure**

FS PART #	UNIT	PACK / SIZE	PACK DIMENSIONS	~UNIT Wt. (Lbs.)	UNITS / PALLET	PALLET / TRUCK	~PALLET WEIGHT***
BSHDSCACNFC01	Case	6/1 Gal	16" L x 12.5" W x 12.5" H	59	36	20	2,174
BSHDSCACNFC05	Pail	5 Gal	12.5" Dia x 15" H***	49	45	20	2,255
BSHDSCACNFC55	Drum	55 Gal	23.5" Dia. X 34.5" H	569	4	20	2,326
BSHDSCACNFC275	Tote	275 Gal	48" L x 40" W x 46" H	2,692	1	14	2,692
BSHDSCACNFC	Bulk	4,850 Gal	---	45,158	---	---	---

50/50 PART #	UNIT	PACK / SIZE	PACK DIMENSIONS	~UNIT Wt. (Lbs.)	UNITS / PALLET	PALLET / TRUCK	~PALLET WEIGHT***
BSHDSCA50FC01	Case	6/1 Gal	16" L x 12.5" W x 12.5" H	55	36	20	2,030
BSHDSCA50FC05	Pail	5 Gal	12.5" Dia x 15" H***	47	45	20	2,165
BSHDSCA50FC55	Drum	55 Gal	23.5" Dia. X 34.5" H	537	4	20	2,198
BSHDSCA50FC275	Tote	275 Gal	48" L x 40" W x 46" H	2,595	1	14	2,595
BSHDSCA50FC	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: BSHDSCACNFC275
275 Gallon FS Tote
UPC:00850081544111



PN: BSHDSCACNFC05
5 Gallon FS Pail
UPC:00850081544104



PN: BSHDSCACNFC55
55 Gallon FS Drum
UPC:00850081544098



PN: BSHDSCACNFC01
1 Gallon FS Bottle
UPC:00850081544135
CASE UPC: 20850081544139
CASE SCC 14:20850081544122

50/50 PREDILUTED



PN: BSHDSCA50FC275
275 Gallon 50/50 Tote
UPC: 00850081544067



PN: BSHDSCA50FC05
5 Gallon 50/50 Pail
UPC: 00850081544081



PN: BSHDSCA50FC55
55 Gallon 50/50 Drum
UPC: 00850081544074



PN: BSHDSCA50FC01
1 Gallon 50/50 Bottle
UPC: 00850081544128
CASE UPC: 10850081544125
CASE SCC 14: 10850081544132

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.
- Coolant testing is recommended as part of routine maintenance every 50,000 MI / 1,000 HRS / 1 YR or at every oil drain interval, using field test strips or fluid analysis. Replenish SCAs as needed based on routine testing to avoid over-concentration.

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 5 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: 108878, & 50/50: 74484) 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 SCA PRECHARGED Coolant/Antifreeze, followed by top-off as needed with BLUE SKY® HD SCA PRECHARGED 50/50 Prediluted Coolant/Antifreeze or properly diluted BLUE SKY® HD SCA PRECHARGED Concentrate. Requires SCAs or chemically charged filters to maintain inhibitor concentration.
- 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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