

# Product Data Sheet

MotorSilk® MS2EO  
2 Cycle Engine Treatment



## TREATMENT FOR TWO CYCLE ENGINES

**MotorSilk® Engine Treatment (MS2EO)** contains **Boron-CLS-Bond®** one of the lowest friction technologies known. **Boron-CLS-Bond®** has its primary ingredient of molecular boron. Molecular hydrated boron is super slippery. Ultra-fine particles are reduced to less than 1 micron by a revolutionary jet-milling process at sub-zero temperatures. The sub-micrometer hydrated boron particles invade microscopic spaces and chemically (covalently) BOND to the surfaces of moving engine parts, making them harder than before (85% hardness of a diamond), then spontaneously create a Crystal Lattice Structure (CLS) of platelets made up of inter-atomically bound ( $H_3BO_3$ ) molecules. These platelets have virtually no friction between them.

The most commonly invoked and illustrative analogy is a deck of cards; while a full deck is highly resistant to perpendicular pressure, the individual cards glide against each other when lateral pressure is applied. Strong interatomic (ionic) bonding and rigidity of layers prevent direct metal-to-metal contact, reducing friction and wear by 90 percent, thus inhibiting wear damage and corrosion. Those metal to metal contact points are where lubrication is needed, where not only extreme pressures are created but also where significant energy is lost to friction, deformation, and vibration.

Once established on the metal surfaces, **Boron-CLS-Bond®** outperforms all other fluid or fluid-dispersed extreme-pressure or friction-reduction additives, significantly improving and protecting your engine. When **Boron-CLS-Bond®** chemically bonds with the metal, the resultant boundary layer virtually eliminates metal-to-metal contact. The boric acid platelets protect metallic surfaces in your engine, cleaning intake valve deposits, fuel injectors and combustion chamber deposits, and sealing micro-pitting and micro-cracks.

It is the only engine treatment that is ISO 14064-2 process compliant, validated and verified by the Canadian Standards Association (CSA) for reduction of GHG emissions by means of reducing the amount of fuel burned.

**MotorSilk® Two Cycle Oil Additive** is a fully formulated additive for today's two stroke engines. The product provides greatly enhanced detergency to gasoline because of an active chemical process that cleans valve deposits and helps reduce Octane requirements, cleans combustion chamber deposits, and injector nozzles.

**MotorSilk® Two Cycle Oil Additive** reduces fuel consumption (octane reduction), controls inlet system deposits, reduces or eliminates valve "knocking" and "pinging", improves engine lubricity, eliminates white smoke and greatly reduces other harmful emissions.

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## USAGE

**MotorSilk® Two Cycle Oil Additive** may be blended to all gasoline fuels. The additive should be diluted 50 to one in the final mix. Thus, one 190L (400lbs) drum treats 9,500L (20,000lbs / 2,500 gallons). One 16.6L (35lbs) pail treats 830L (1,750lbs / 219 gallons). One 473ml (16oz) bottle treats 24L (50lbs / 6.25 gallons). One 296ml (10oz) bottle treats 15L (32lbs / 4 gallons).

## APPLICATIONS

Lubricant for automotive, motorcycle, moped and other light duty 2 stroke gasoline engines only.

## SPECIFICATIONS

Lubricity (Falex B.O.T.D.) 195 - <.300  
 Color ..... Amber translucent  
 Base Fluid ..... Proprietary  
 Flash point ..... 201 deg. F. (ccc)  
 Density ..... 0.884 g/cm<sup>3</sup> at 25°C (77°F)  
 D.O.T, IMDG, IATA..... Not dangerous goods  
 Marking.....   
 Hazardous substance..... Irritant, eye, skin and central nervous system (ingestion)  
 Auto ignition temp ..... >500°F / 260°C  
 Vapor Pressure ..... 0.06 jPa (0.02 mmHg) at 20°C (68°F)  
 Vapor Density ..... (Air = 1) > 4  
 pH..... 6.6 – 7.3 at 118.2 g/l at 25°C (77°F)

## PACKAGING

Bottle.....10 oz / 296 ml  
 Bottle.....16 oz / 473 ml  
 Pail.....35 lb / 16.6 litre  
 Drum.....400 lb / 189.3 litre  
 Tote.....2000 lb / 946.0 litre

