



Industrial
Lubricants



Automotive
Lubricants



Biodegradable
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Lubrication
Equipment



Metalworking
Fluids



Bioflush MSC Plus

Soluble Oil System Cleaner

Product Code: AGFP

Product Description

Pennine Bioflush MSC Plus is a biocidal/fungicidal cleaner and disinfectant fluid for use in self-contained or centralised water based coolant systems and machine tools using soluble cutting oils. The product has an excellent bacterial and fungal kill action, along with good detergency and pH buffering properties, helping to restore machine cleanliness prior to a new charge of coolant.

Applications

Bioflush MSC Plus is designed for use in soluble metalworking fluid systems, to be used prior to a full coolant clean out.

It can be used whilst the machine is in operation and thus there is no loss of production time.

Instructions For Use

- 1) Add 2 - 3% Pennine Bioflush MSC Plus by volume to the existing coolant 48 hours prior to changing the coolant. The machine can be used as normal during this period. Ensure that all coolant pipes are turned on and fill the sump to the top to allow the cleaner to thoroughly sterilize all areas of the machine.

N.B. Overdosing of System Cleaner may lead to excessive foaming and/or skin/eye irritation.

- 2) Empty out the existing coolant taking care to "skim" off any tramp oil first. Wipe out the coolant tank removing any stubborn dirt and grime.
- 3) Remove turnings/swarf from the machine sump and bed.
- 4) If the sump is badly contaminated, fill the sump with water and add 1% Pennine Bioflush MSC Plus. Circulate for approximately 15 - 30 minutes. Where this is not practical e.g. large sumps, part fill with water and a small amount of System Cleaner and mop / wipe around the sump to remove any remaining sludge.





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- 5) Sump out water / System Cleaner and wipe out remaining sludge with clean rags.
- 6) Re-fill with new clean coolant. If possible, use of an automatic mixer unit (e.g. Mixtron Dosing Pump) is advisable. If mixing by hand, calculate the amount of coolant concentrate required and add SLOWLY in to clean drums.
- 7) Circulate the new coolant through the machine and test the strength with a hand refractometer. Adjust the strength if required.
- 8) The machine is ready for use.

Typical Test Data

Density @ 15°C	1.045
pH	~11
Colour	Blue Liquid
Freezing Point (°C)	-2

Availability

Pennine Bioflush MSC Plus is available in 205 litre barrels, 25 & 20 litre drums and 5 litre plastic bottles.

Storage

Barrels of lubricant should always be stored in such a way that will prevent the ingress of water when stored in the open. Protect from frost.

Health and Safety

Please refer to the relevant Health and Safety Data Sheet, a copy of which is freely available to all our customers.

Data represented is typical of that obtained with normal production tolerances and does not constitute a specification. The policy of Pennine Lubricants is one of continual improvement; we therefore reserve the right to change specifications without notice.



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