

**PERFALUBE MHL** is a highly anti-static, readily scourable, woollen spinning lubricant. **Perfalube MHL** has been developed specifically for the production of hosiery yarn on the woollen system. The product is a blend of non-ionic surfactants; fatty materials and solvent refined mineral oils and was designed giving consideration to the problems associated with further processing.

## APPLICATION

**Perfalube MHL** can be applied at levels of 3 – 11% o.w.f. dependant on fibre types. Application is normally in emulsion with water 50 / 50 v/v higher water levels can be utilized where factory humidification is a problem. When preparing emulsions it is necessary to add the lubricant to the water to avoid thickening of the emulsion.

The following is a guide to actual application levels for **Perfalube MHL**:

SHETLAND	8 – 11%
LAMBS WOOL	5 – 7%
CASHMERE	4 – 5 %
LAMBS WOOL / ANGORA / NYLON	3 – 4%

**Scouring:** **Perfalube MHL** is readily removable in neutral or mildly alkaline scours. A typical recipe would be 1 – 2% o.w.f. non-ionic detergent and 0.5% o.w.f. sodium bicarbonate at 40 – 45°C. Alternatively a specialist 'built' product such as **Perfascour LAN** will give low residuals and a soft bulky handle.

## BENEFITS

- **Colour Control:** Contains additives which will overcome problems associated with loose dyestuff removal at finishing.
- **Yarn Strength:** **Perfalube MHL** will show an increase in yarn strength against many lubricants.
- **Static Control:** Being highly anti-static, **Perfalube MHL** will not normally require added anti-static.
- **Emulsification:** Being readily emulsifiable **Perfalube MHL** forms a stable emulsion with over 50 / 50 v/v water. Can also be applied neat.
- **Runability:** Excellent fibre control in processing with **Perfalube MHL** gives low ends down and good yields.
- **Corrosion:** **Perfalube MHL** contains anti-corrosive agents and is non-yellowing.
- **Scourability:** **Perfalube MHL** is easily scourable under neutral or slightly alkaline conditions.
- **Versatility:** **Perfalube MHL** can be safely used with all types of condenser tapes and can be applied to 100% lambswool and 100% Shetland, as well as lambswool nylon / angora blends.

## TYPICAL PROPERTIES

Appearance:	Pale yellow liquid	Ionic Activity:	Non-ionic
Colour (Gardner 10mm cell):	4-8	Specific Gravity @ 15°C:	0.890-0.950
Viscosity @ 40°C:	33 cSt	pH of emulsion (at 25%):	5-6
Flash Point (COC) °C:	>200		

## PACKAGING

Perfalube MHL is available in 205 ltr drums and 1000 ltr IBC's and bulk deliveries.

## HANDLING PRECAUTIONS

The usual precautions in handling chemicals should be observed and it is recommended that operatives should wear goggles and gloves when handling the concentrated product. Any contact with skin and eyes should be washed immediately with copious amounts of cold water. Please refer to Material Safety Data Sheet for further information.

## HEALTH & SAFETY

This product has been manufactured to the highest standards and when used for the purpose recommended is unlikely to present any significant health hazards. A Material Safety Data Sheet is available.

Indicated data are approximate values and are subject to the usual commercial fluctuations. All information correct at time of going to press to the best of our knowledge. This information may be subject to change without notification due to continual product research and development.