

- 15 When other persons are in the area, use welding screens or ensure that their eyes are protected from the electrical arc. They must wear welders green goggles when the watch the work. **WARNING NOTICES MUST BE DISPLAYED AROUND THE WELDING AREA.**
- 16 Suspected damage to the eyes by welding (arc eye) must receive immediate attention from a doctor or some one trained in first aid.
- 17 **DO NOT** expose any part of the skin to the radiations from welding. It can cause burns similar to sunburn.
- 18 **NEVER** attempt to move welding equipment by pulling it by its cables.
- 19 **CHECK** that there is adequate ventilation or extraction of fumes.
- 20 In confined spaces such as manholes, tanks, trenches etc, a fume extract system, fresh air supply, harness and safety rope may be necessary.
- A second person must be in attendance outside, who is trained in first aid, including artificial respiration for anyone suffering electric shock, and who must be able to turn off the welding equipment and be in direct contact at all times.
- 21 Always place the electrode holder on an insulated surface when not in use to avoid contact with other parts of the equipment, which would result in overheating and possible fire.
- 22 If the electrode appears red hot during welding reduce the current output.
- 23 **NEVER** attempt to change electrodes when the holder is live.
- 24 Always remove the power plug from its socket when the welder is not in use.
- 25 **REMEMBER:** Welds remain **HOT** for sometime. Make sure that nobody touches it and **DO NOT** cool by means of water.
- 26 A suitable fire extinguisher should be readily available for use in emergencies.
- 27 **DO NOT** attempt repairs. Contact the Hire Company.

MIG WELDERS POWERED BY PETROL OR DIESEL MOTORS

All the above precautions are to be adhered to with the additional of those set out below:

- 28 Position the equipment on firm and level ground. Secure if necessary to prevent accidental movement.
- 29 Before starting the engine the operator should familiarise himself/herself on how to stop it.
- 30 **DO NOT** smoke when refuelling. **NEVER** refuel with the engine running.
- 31 Whenever possible move the welder away from the work area.
- 32 Replace the fuel caps securely on the engine and fuel container. Wipe up any spillage immediately.
- 33 Fuel containers should be in good condition and leak proof.
- 34 **DO NOT** use the machine in a hazardous or explosive atmosphere, or where fuel has been split.
- 35 **DO NOT** run the equipment in badly ventilated area or where exhaust fumes can sink into a basement or excavation.
- 36 If the engine has to be used in an enclosed area, ducting may be used to discharge exhaust fumes to a safe place.
- 37 **CHECK** that there is no combustible material on or against the exhaust system. The exhaust pipe and silencer get very hot.
- 38 In the event of a leak of fuel or oil developing, switch the engine off immediately.
- 39 If warning lights show or gauges register outside normal limits, switch off the engine.
- 40 **DO NOT** top up with coolant while the engine is running. Allow the radiator to cool before removing the radiator cap.
- 41 When noise levels are uncomfortably high at 85-89dB(A), it is advisable to wear hearing protection.
- 42 At still higher noise levels, when it is necessary to shout to be heard, (90 dB(A) and above) the law requires that hearing protectors must be



CPA. 27/28 Newbury Street, Barbican, London EC1A 7HU.
Tel: 020 7796 3366. Fax: 020 7796 3399.
Email: enquiries@cpa.uk.net
Website: www.cpa.uk.net

MAY 2004