Before Starting Work...

1421 Safety Guidance

Three types of risk that need to be controlled when using

Fire and explosion risk from storage and use of

Risk of burning from contact with hot bitumen.

Risk of respiratory irritation from excessive inhalation

It is important to read this entire leaflet

BEFORE using the Propane Tar Boiler

Plan your work and think ahead to make sure you will

works and the hazards it presents before you start work.

Propane gas is highly flammable. Take care not to cause a fire or explosion.

controlled way. It is very heavy when full, take care when moving it.

effort has been made by HAE/EHA to ensure that the information given in this docum

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case of a bitumen burn.

protective equipment.

appropriate face mask

bare skin.

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higher level of protection.

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The bitumen boiler is designed for melting bitumen products other than cut-back

bitumens for weatherproofing applications in the open air including roofing work,

flooring applications, road surfacing, and cable jointing. Operation of this bitumen boiler can cause injury or damage if not used in a careful and

If you have not used this type of equipment before, familiarise yourself with how it

You must have at least the following items of personal protective equipment: Goggles or Full Face Visor to BS EN166, Safety Boots to EN ISO 20345:2011, suitable

This bitumen boiler must not be used by minors or by anyone under the influence of

This bitumen boiler is designed for operation by an able bodied adult. Anyone with

either temporary or permanent disability must seek expert advice before using it.

is accurate and not misleading. HAE/EHA cannot accept responsibility for any loss or liability perceived to have arisen from the use of any such document/material. Only Acts of Parliament and Statutory Instruments

have the force of law and only the courts can authoritatively interpret the law.

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stored sately at least 6 metres away from

saaitional gas cylinders should be

Set up the gas cylinder at least 3 metres

of the boiler, to contain any spillage. Set the tray on a fire resistant material.

with a greater capacity than the contents

poller in a dedicated (metal) spillage tray

When based on the roof surface, set the

pnilding or in an enclosed or confined

combustible and capable of carrying the

Stand the Bitumen Boiler on a firm level

rubbish like paper to collect near the

from the boiler. Do not allow combustible

Always store combustible materials away

Note: Never use water to combat a

least one fire extinguisher (9 litre foam or 9kg dry powder) in an accessible place.

Your work area should always have at

others to keep away, put barriers around

Protect other people from injury. Warn

and safe and that no-one is near to you

Make sure that your work area is clear

No smoking when working near liquefied

petroleum gas (LPG) cylinders.

SETTING UP THE WORK AREA

Do not site the boiler inside a

Mulcu suonia pe uou-

away from the boiler during use.

the boiler.

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bitumen fire.

your work area.

or could distract you.

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protective work gloves, and suitable protective clothing to avoid skin contact from

liquefied petroleum gas (LPG).

Bitumen Boilers are:

of bitumen fumes

always be working safely.

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splashes.

drugs or alcohol.

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near the work space for use only in the

A bucket of cold water should be kept

tar/bitumen burns. Written notification of

rraining in tirst ald procedures for

with hot bitumen should have received

In the work environment, people involved

siso need to wear appropriate personal

Anybody who is working near to you will

hot works, and if required by wearing an

practicable, on the upwind side of the

by working, as tar as reasonably

Exposure to fumes should be minimised

splashes coming into contact with your

material, long sleeves, and full length trousers / overalls to prevent the

gloves made of durable protective

You should wear appropriate work

You must wear safety boots (EN ISO

(BS EN166) when you are working with

You must wear goggles or full face visor

obs or environments may require a

you use this bitumen boiler. Particular

minimum that should be worn whenever

protective equipment (PPE) are the

of bersonal

this should be clearly available on site

Propane Bitumen Boiler

The rules and procedures in force where people are at work

may require the person responsible for this equipment to carry out a specific risk assessment.

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- regulator. If anything is found damaged, burner assembly, flexible hose and gas Check your equipment including the -1 RI UMEN BOILER
- Place the boiler on a firm level non-.s the hire company. do not use the bitumen boiler - contact
- be damaged by heat and bitumen finished or decorative surfaces that may burnable surface, like concrete. Avoid
- bitumen will easily locate under the draw the containers used for carrying hot The boiler should be positioned so that 3 səuseids
- sately well away from the doller. LPG is Keep all gas cylinders not in use stored ·Þ on tap.
- should not be stored where any gas stored in well-ventilated areas. They heavier than air, so cylinders should be
- a sate place at least 3 metres away from The cylinder in use should be located in 'G could collect at a low level.
- carefully to avoid people and vehicles top of the cylinder using a spanner to tighten couplings. Lay this hose out connected with the regulator fitted to the type, in good condition and properly The flexible gas hose must be the correct - 9 the boller.
- removed from under the boiler (if this is Before lighting up, the burner should be -2 .ti gnigamab

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precautions to be taken.

potential hazards present and of the

pirimen polier you must be aware of the

equipment works - before you use the

13. Make sure you understand how the

12. After finishing all gas connections check

boiler to provide maximum satety.

soapy water. Never use a naked flame.

for leaks using your sense of smell, or

bitumen being used. Use a thermostatically controlled bitumen

temperature for the particular grade of

supply valve and move the gas cylinder

the lid immediately, then turn off the gas

possible. In the case of a boller life, close

gas supply valve and move the gas

boil over. If this does occur; turn off the

Make sure the bitumen boilers do not

snould tollow the manufacturers

build-up of gas under the boiler during

possible), lit and then replaced correctly with care. This avoids any possible

Generally you

9. Keep the lid on the boiler as much as

cylinder away from the area.

guidance on lighting up.

the lighting process.

11. Do not exceed the recommended

10. Add bitumen carefully, avoid splashing.

away trom the area.

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2450 Regents Court

Please keep this leaflet safely as it may be required for future reference

If your equipment does not work properly do not attempt to repair it. Contact the hire

company.

the tar becomes solid

- Keep the outside of the boiler 'clean' by daily removing drips and splashes of tar 21.

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- Do not move or transport the boiler while it is lit or while it is hot, allow it to cool down until
- 19.
- while
- Stop work and make safe if someone approaches you. 17. Turn the gas off at the cylinder if leaving the boiler unattended, even if it is only for a short 18.
- Make it safer by removing any obstacles and informing people of the designated path.
- 15. Decide on the safest route for the hot tar to be carried form the boiler to the workplace 16.

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e resistant material.

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- Check the level and the temperature of the tar in the boiler regularly. Make sure it does not overheat or run low. Add solid tar carefully to avoid splashes. 14.

Keep the lid on the boiler at all times; replace it as soon as possible after removing it

Do not apply direct heat to any taps, valves or pipes on the boiler to try to get it operational

For guidance on managing

construction health risks go to

www.hse.gov.uk/construction

Using the Propane Bitumen Boiler

Wear your protective equipment. Wear clothing and gloves to cover as much bare skin as possible.

ential persons to work in the area where the hot tar is used. Stand the Tar Boiler on a firm level surface, which should be non-combustible and capable of carrying the load. Do not site the boiler inside a building or in an enclosed or confined

When based on the roof surface, set the boiler in a dedicated (metal) spillage tray with a greater capacity than the contents of the boiler, to contain any spillage. Set the tray on a

Set up the gas cylinder at least 3 metres away from the boiler during use. Any additional gas cylinders should be stored at a distance from the boiler of at least 6 metres.

Ensure the burner assembly is located correctly and that the boiler is half filled with solid

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- quicker. You will cause damage to the parts heated.

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tar. Turn on the gas at the cylinder valve and carefully light the burner.

- 11.

Carry melted tar only incorrect containers, for example lidded buckets. 12.

Do not ladle hot tar out of the boiler, this can also cause spitting. Use the draw off tap.

Do not allow water to come into contact with hot tar. Hot water and tar will be spat out.

Heat the cold tar slowly until any water is driven off and the tar becomes liquid.