



MATERIAL INFORMATION SHEET BLAZERS BURNING FUEL PELLETS



SECTION 1: PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: Blazers Fuel Pellets **MANUFACTURER:** Blazers Fuels Ltd
CONTACT DETAILS: Brickfield Lane, Denbigh Road, Ruthin, Denbighshire, LL15 2TN Tel: 01824 708928

Wood pellets are made from 100% virgin timber wood chippings and contains no additives

They are friendly to the environment with less CO² emissions than other forms of heating.

Pellets burn at constantly high temperatures

No overseas transport means greater carbon reductions.

All our pellets come from a sustainable source.

Remaining minimal ash can be used as a nutritious fertilizer.

Wood pellets have a high calorific value: 4.9kWh. A 2Kg wood pellet is approximate to 1 litre extra light heating oil. High energy yield gives low heating costs and environmentally friendly heating.

The moisture content is between 6 - 10%

Wood pellets are available bagged, blown and bulk.

Product conforms to FSC and ENplus A1 standards (See attached ENplus Standard sheet)

SECTION 2: STORAGE

Store in a well ventilated dry place, away from sources of heat, flame, sparks or other contamination.

SECTION 3: HEALTH & SAFETY INFORMATION

The product is not hazardous to health in its solid form; however there is a possibility that packaging and handling could generate a small amount of soft wood dust. The Health & Safety Executive (HSE) has assigned a Workplace exposure limit for wood dust, this being

Long term exposure limits (8 hour TWA reference period) 5Mg.m⁻³. (information collated on 05/10/2009)

The potential health effects relating to dust from softwood relate to prolonged exposure to fine wood dust. Wood dust may cause irritation to the nose, throat, skin and eye. Wood dust has been classed as a sensitiser and some people may develop allergic dermatitis or asthma.

Routes of entry	Adverse effect	First Aid measure	Comment
Inhalation	Irritating to nose, throat and lungs. Asthma may occur.	Remove to fresh air. If discomfort persists seek medical assistance.	The use of a dust mask will reduce the risk of irritation
Contact to skin	Skin irritation. Allergic contact dermatitis may occur	Wash with soap and water If irritation persists, seek medical assistance	The use of safety gloves and overalls will reduce the risk of irritation
Contact to eye	Irritating to eye resulting in redness and watering.	Irrigate with copious amounts Of clean water. If discomfort persists, seek medical attention.	Protect the eyes from wood dust by wearing safety glasses
Ingestion	Unlikely under normal circumstances. May cause abdominal discomfort.	Rinse mouth with clean water. If discomfort persists, seek medical assistance.	Ensure you wash your hands after being in contact with wood dust.

Fire fighting measures:

Wood dust will help sustain a fire and the dust may form an explosive mixture with air. Avoid sparks, the build up of static electricity and sources of ignition in all electrical equipment and dust extraction equipment.

If material is involved in a fire, use water to extinguish the fire.

SECTION 4: HEATING FUEL

Wood is a renewable source of energy because the carbon dioxide emitted when the wood is burned has been taken out of the atmosphere by the growing plant. Even for allowing for emissions of fossil carbon dioxide in planting, harvesting, processing and transporting the fuel, replacing fossil fuel with wood fuel will typically reduce net CO² emissions by 90%. This applies to all forms of wood fuel, including wood pellets, which are made from highly compressed virgin waste sawdust.

Wood pellets can be used to produce heat in a specially designed stove or boiler. In addition, some existing solid fuel and oil boilers can be converted to make use of wood pellets.

Stoves & Boilers

Pellet stoves feature a hopper to hold enough fuel for 1 to 3 days of operation and an ash pan than needs to be emptied no more than once a month to once a year (depending on the model and the frequency of use) so they are much more convenient to use than a traditional open fire or stove.

Wood pellet boilers are fully automatic just like oil and gas boilers. Pellet boilers use advanced microprocessors to control the amount of fuel and air being supplied to the combustion chamber. This ensures extremely high efficiencies (up to 90%) and ultra low emissions.

Handling & Storage

The best solution for a pellet boiler, allowing for easy and convenient pellet handling, it to install a pellet store that is designed to receive pellets delivered by bulk tanker. The pellet store can either be built outside the premises or inside. The pellets will then be transported to the boiler via a special feed system consisting of a flexible auger inside a tube.

The alternative system for the storage of pellets is to buy them by the bag. Purchasing by the bag is the most convenient way to storing pellets to be used in a pellet stove.