



Cleans Up Oil Spills In Seconds™



FLEMING
TECHNICAL



ultra fast action

page 2

Spill Hound is a third generation absorbent based on highly modified plant fibres. The Spill Hound fibre structure has an ultra-high affinity for oils and gives unequalled performance in spill contamination and control. The result is a product with unequalled oil affinity and the ability to absorb spillages in seconds.



recycling system

page 3

Unlike other absorbents, Spill Hound is recyclable, allowing repeated use. Spill Hound is never wasted but used again and again until it is completely spent.



complete containment

page 4

Spill Hound operates by two natural and extremely powerful mechanisms to absorb and then permanently capture oil spills.



sustainability

page 5

Spill Hound is derived from 100% natural and renewable fibre processing residuals. The use of these residuals actually reduces industrial waste generation.



fire safety

page 6

Spill Hound incorporates a powerful suppression system which blocks vapours and inhibits the spread of fire.



cost efficiency

page 7

Spillages cost money in terms of product cost, labour cost and waste disposal charges. Spill Hound saves money in all three areas by recycling unused product, its rapid action and the reduction of off-site waste charges.



partnerships

page 8

The superb Spill Hound system has been adopted by key partners in the UK and around the world.



technical data

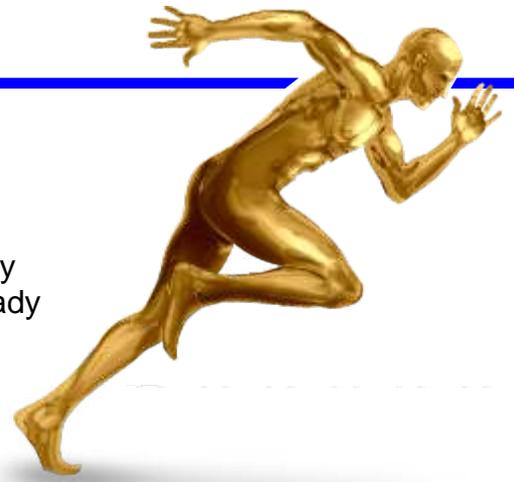
pages 9-13

Here you can find Quality Assurance accreditation details as well as comprehensive Health and Safety information.

ultra fast action

speed is key

The powerful wicking action of Spill Hound goes to work immediately on contact. Within seconds, spilled material is encapsulated and ready for recycling.



ready. set. gone.

Using Spill Hound is as easy as using a brush!

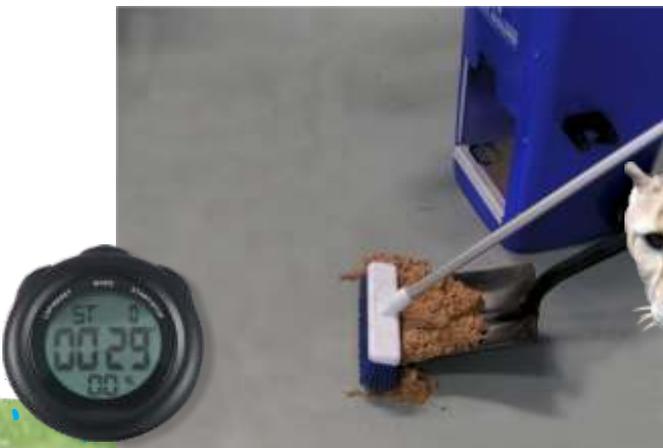
Ready. Take the Spill Hound Recycling Centre to the spillage area. Apply Spill Hound generously to the spillage.

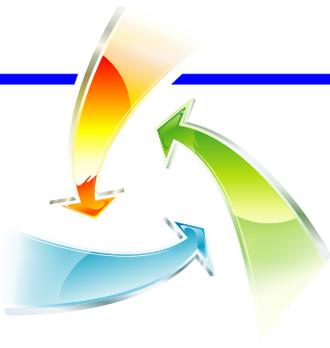


Set. Simply brush Spill Hound back and forth firmly through the spillage. The spilled material is absorbed in seconds.

Gone. Collect the used material and recycle to recover all unused Spill Hound.

See Spill Hound in action at www.spillhound.com





Spill Hound can be recycled up to 6-8 times (depending on the nature of the spills) when used through the Spill Hound Recycling Centre. The Centre is a mobile unit incorporating the required tools and equipment for complete spill handling and recycling.

Just two simple steps...

step one

Place the used Spill Hound into the filter in the top of the Recycling Centre.

step two

Shake the filter gently until all unused Spill Hound is returned to the Recycling Centre for repeated use. The filter will retain the encapsulated spillage, ready for safe disposal.



recycled up to 8 times

complete containment



wick 'n' lock technology

Spill Hound operates by two natural and extremely powerful mechanisms to capture and then contain oil spills.

wicking mechanism

When viewed under a microscope, the Spill Hound internal structure is revealed as a continuous matrix of hollow fibres with an exceptionally high natural affinity for oils and hydrocarbons. When Spill Hound comes into contact with a spill, the spilled material is compelled by a powerful wicking action to coat the fibres.

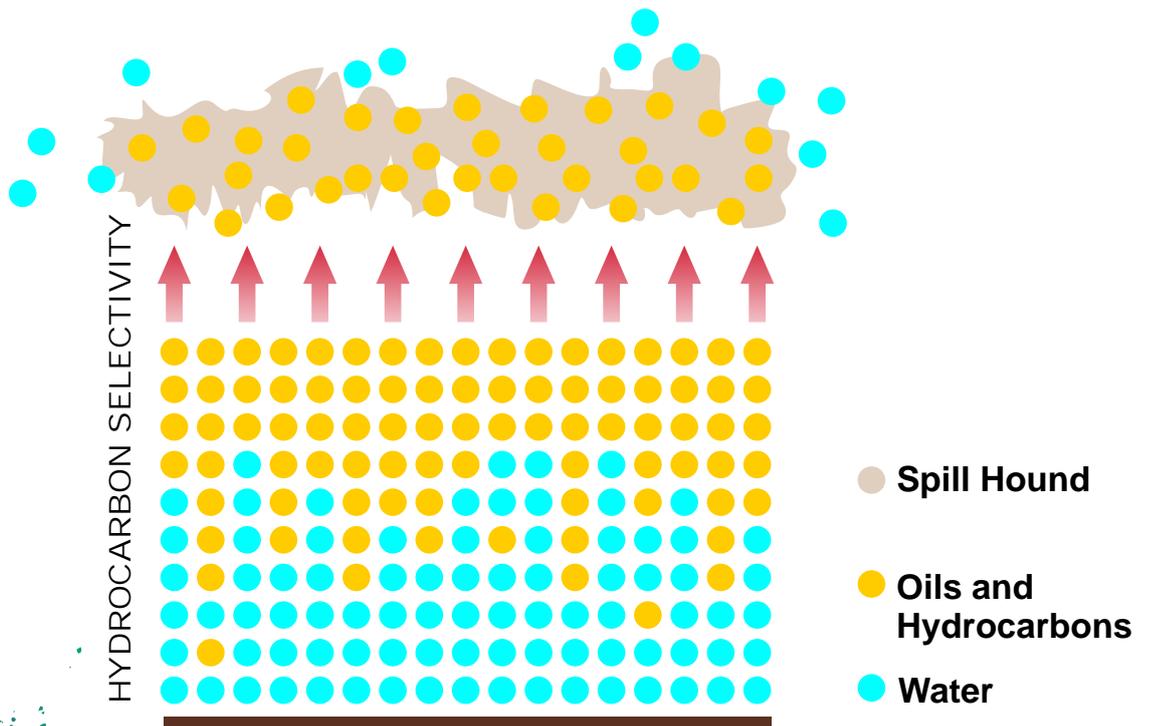
locking mechanism

The unique locking action is the crucial difference between Spill Hound and conventional absorbents. Once coated with oil or hydrocarbons, Spill Hound fibres exert a powerful capillary suction which draws and then locks the material within the fibre structure. This mechanism is so selective that, even when Spill Hound is saturated with water, it will absorb oil and displace water in the process.



oil preference system

Spill Hound can be used to clean up oil spills in wet or damp conditions, where its extremely high selectivity for hydrocarbons will preferentially absorb oil, even when water soaked.





**environmentally
engineered to be
eco-friendly**

renewable fibres

Spill Hound is derived from renewable fibre processing residuals. It can be incinerated, generating useful energy, where facilities exist, or composted using appropriate bio-augmentation techniques.

reduced contamination

Spill Hound is designed to encapsulate hazardous hydrocarbon waste and sludges, reducing contamination and environmental damage in the workplace.

recycling system

Spill Hound has a unique recycling system, allowing for maximum efficiency and productivity. It can be recycled up to 8 times depending on the nature of the spills.

fire safety

fast and effective fire control

Spill Hound enhances fire safety by simultaneously excluding oxygen, suppressing flammable vapours and blanketing flames with an inert atmosphere.



BLOWTORCH TEST ✓

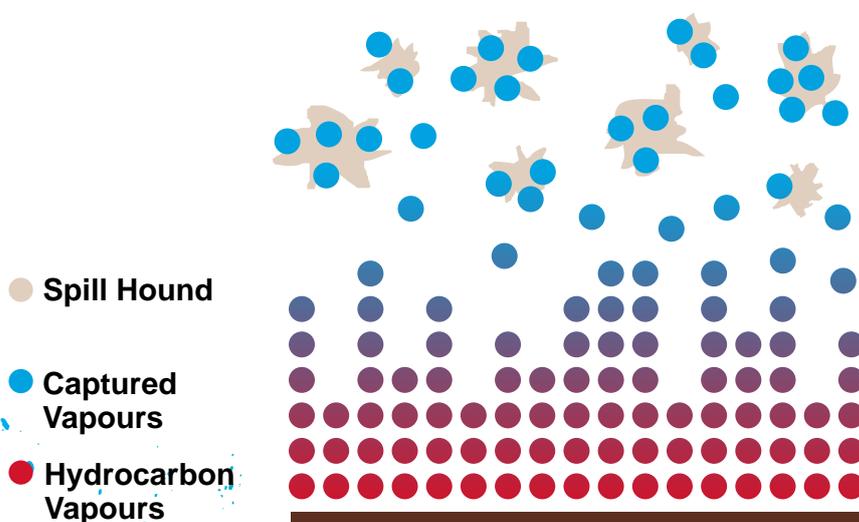
Spill Hound is subjected to the fearsome blowtorch test using a propane/butane mix. The invisible sheath around the visible flame reaches a blistering 1350 degrees Celsius and yet Spill Hound simply glows red without catching fire.



SMOTHER TEST ✓

Diesel fuel fires are extremely energetic and difficult to extinguish.

Spill Hound instantly smothers the flames and virtually eliminates the escape of further flammable vapours.



The Spill Hound fibre matrix acts like a network of tiny magnets which captures hydrocarbon vapours and suppresses their emission to atmosphere. This powerful effect can reduce the threat of vapour re-ignition in the event of a fire.

**vapour
suppression
system**



making the right choice



spill hound or granules?

Spill Hound is incredibly economical. The recycling system means that 100% of unused material is recovered for repeated use. Field tests indicate that the use of Spill Hound can result in a 30-fold reduction in the costs of spill treatment.

spill hound or granules?

Spill Hound cleans up oil spills in a single application, allowing staff to return quickly to their regular work. In contrast, granules are so ineffective that a typical spill will require around five applications **and** a detergent clean-up in order to give a safe floor surface.



spill hound or granules?

Waste. It is now more costly than ever to dispose of waste material.

Spill Hound is supremely efficient and can give substantial reductions in off-site waste disposal costs.





Spill Hound. Wherever you are.



MultiResponse

Gulf is recognized throughout the world as a leader in oil and lubricant products. Gulf MultiResponse is available in 26 countries and uses advanced Spill Hound technology. MultiResponse is a natural extension to the comprehensive Gulf product range.

Details on 01823 276506 or www.gulfmultiresponse.com



INSTARMAC Ultracrete Zorbit

Instarmac Group plc is an award-winning company specialising in the manufacture of innovative products for highway maintenance. Ultracrete Zorbit uses advanced Spill Hound technology and is available throughout the UK via Instarmac's dedicated logistics network.

Details on 01827 872244 or www.instarmac.co.uk



FLEMING TECHNICAL Spill Hound

Fleming Technical are the designers, formulators and manufacturers of Spill Hound. Spill control technology is one aspect of the company's portfolio which covers a wide range of industrial chemical formulation.

Details on 0151 343 1800 or www.spillhound.com





Total Quality. All the way.

Spill Hound is the result of a rigorous product design system which involves detailed inputs from existing and potential customers.

Products are only released to market when they satisfy or exceed the strictest customer requirements in terms of performance, quality and price.

Fleming Technical is accredited to the globally recognised quality assurance standard ISO 9001.

Our design systems, our manufacturing and inspection systems, in fact, our whole operation, is regularly evaluated by an independent assessment organisation to ensure that we comply with this stringent international standard.





1. Identification of the Preparation and of the Company

Product Name	Spill Hound
Description	Spill absorption and containment medium
Company Identification	<p>Fleming Technical Limited Brunel Road, Croft Business Park Bromborough Wirral CH62 3NY United Kingdom</p> <p>Tel +44 151 343 1800 Fax +44 151 343 1801</p> <p>Internet www.fleming-tech.com www.spillhound.com</p>

2. Hazards Identification

Skin	Low hazard via this route.
Eyes	Low hazard via this route.
Ingestion	Ingestion unlikely. May cause stomach upset
Inhalation	Low hazard by this route; dust-free product.

3. Composition/Information on Ingredients

A proprietary blend of modified natural plant fibres

Hazardous Ingredients	%w/w	CAS No	EC No	EC Classification
No hazardous ingredients				

4. First Aid Measures

Skin	Wash with clean water.
Eyes	FLUSH WITH WATER FOR 15 MINS.
Ingestion	Give water to drink. Seek immediate medical aid.
Inhalation	Not applicable - product is dustless .



5. Fire Fighting Measures

Combustibility	Combustible			Autoignition temp (°C)	260
Flammability Limits	UEL (%)	n.d	LEL (%)	n.d	
Products of combustion	Oxides of carbon, hydrogen and nitrogen				
Extinguishing agents	All extinguishants suitable.		Precautions	WEAR SELF-CONTAINED BREATHING APPARATUS	

6. Accidental Release Measures

Personal	Refer to section 08 for personal protection requirements
Environmental	Do not allow to enter drains (may cause blockage)
Cleanup	Sweep up, bag and reuse or dispose as solid waste

7. Handling and Storage

Handling Instructions	Good industrial hygiene practice is sufficient.			
Storage Temperature (°C)	Min	0	Max	30
Storage Conditions	In a cool dry place			
OK Materials	No restrictions		Not OK	None known

8. Exposure Control / Personal Protection

Skin	Good industrial hygiene is normally sufficient.
Eyes	Avoid eye contact.
Ingestion	DO NOT INGEST!
Inhalation	Not applicable.
Notes	No OEL exists for any components.



9. Physical and Chemical Properties

Appearance	Pale tan fibrous solid			Odour	Sweet organic
SG 20°C	n.d	pH (neat)	n.d	pH (10%)	n.d
Boiling point °C	n/a	Freezing point °C	n/a	Flash Point PMCC °C	N/A
Miscibility (water)	Insoluble but forms slurry		Miscibility (other)	Insoluble but forms slurry with most liquids	
Other physicochemical data					

10. Stability and Reactivity

General stability	Stable
Conditions to avoid	No special requirements
Materials to avoid	Oxidisers and strong alkalis
Decomposition products	May evolve ammonia if raised to alkaline pH

11. Toxicological Information

Oral LD ₅₀ (rat) mg/kg	>5000	Dermal LD ₅₀ (rat) mg/kg	n.d.
Acute (short term) effects	None known or expected.		
Chronic (long term) effects	Product is a powerful oil absorber and may cause skin dryness through defatting on prolonged contact.		
Exposure limits	None established		
Carcinogenic/mutagenic/teratogenic data	None known or expected		

12. Ecological Information

Summary of effects	Product is derived from a natural, renewable source
Biodegradability	Product will biodegrade
Bioaccumulation data	No bioaccumulation data available
Aquatic toxicity	



13. Disposal Considerations

Disposal	Uncontaminated material may be reused. Dispose of used material as solid waste via licensed contractor
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14. Transport Information

UN Substance ID		IMDG code		Class	
MFAG Table No			EmS No		
ADR/RID class					

15. Regulatory Information

Symbols	None	None
Label warnings	Avoid contact with eyes	

16. Other Information

FOR USE BY TRAINED PERSONNEL. UNTRAINED PERSONNEL MUST NOT BE ALLOWED TO USE THIS MATERIAL. USERS SHOULD HAVE ACCESS TO, AND BE FAMILIAR WITH, THE CONTENTS OF THIS DATA SHEET. This product is not recommended for absorbing alkaline spills as ammonia may be generated. When using this product, ensure that other unprotected personnel, or members of the public, are not exposed. Where necessary, unprotected persons should be excluded from any area where the product is being used. Read the product label and follow instructions carefully. This product is specifically intended for use by trained personnel only. All users should have access to, and be familiar with the contents of, this data sheet. This product should NOT be used in the home. This product should only be used on the surfaces described on the product label. If this product is decanted into other containers, ensure that they are suitable, clean and correctly labelled. The hazard nature of this product will change according to the material being absorbed. Ensure that you understand the hazards of the absorbed material when handling or disposing of used material.



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