



SPILL-SORB

BROCHURE

**PREVENTING HARM FROM HAZARDOUS SUBSTANCES,
TO PEOPLE AND THE ENVIRONMENT**

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HAZCHEM RESPONSE - SPILL-SORB

INTRODUCING SPILL-SORB® - THE HYDROCARBON ABSORBENT PEAT

Spill-Sorb® is a highly effective industrial absorbent made from all-natural sphagnum peat moss.

Harvested from carefully cultivated sphagnum peat bogs north of the 49th parallel in Alberta Canada, the peat is then screened, and our specialised heat treatment and air-drying process reduces the moisture content to +/- 10%.

At this level the peat fibre's water retention features change so that its cellular structure now becomes singularly hydrophobic (resistant to water) and has a natural affinity to absorbing and encapsulating hydrocarbons.

This activated peat is then double compressed into our retail bags ready for use on a wide variety of spills.



NATURAL ABSORPTION

- ▶ **Spill-Sorb®** is a non-toxic, all natural, 100% organic, lab-tested, field proven, industrial absorbent that is economical, efficient, non-abrasive, non-toxic, non-leaching and in its natural state is already biodegraded. The inherent capillary action of the activated peat provides a powerful wicking action and encapsulates oils, solvents, heavy metals, pesticides, herbicides and all other organic chemicals on contact.
- ▶ **Spill-Sorb®** suppresses vapours and absorbs hydrocarbons on land or water, in dry or wet conditions, and does not require specially trained technicians or high-tech equipment for handling or disposing of the spent peat.
- ▶ **Spill-Sorb®** weighs little and affords users the ability to carry more, clean up more, and save on transportation and disposal costs.
- ▶ **Spill-Sorb®** that is used will not leech or discharge used pollutants, making it clean and easy to handle.
- ▶ **Spill-Sorb®** that is used can be incinerated or disposed of in landfills or land farmed with no detrimental effects to the environment.
- ▶ **Spill-Sorb®** as an energy source, contributes 3,600 B.T.U.s per kg, excluding absorbed hydrocarbons, and burns to a residue of less than 2% of its original volume.
- ▶ **Spill-Sorb®** is used for environmental spill clean up and remediation purposes by fire departments, industries, airports, railways, transportation companies, garages and service stations, oil refineries and distribution facilities, oil wells and drilling rigs, and from marine vessels to harbours; the list is endless!
- ▶ **Spill-Sorb®** is used to filter industrial wastes, untreated effluents, heavy metals, algae, and polluted industry and mining remnant wastes.
- ▶ For industrial and home use, **Spill-Sorb®** absorbs PCB's, oil-based paints, inks and dyes, animal fats, vegetable oils and blood.
- ▶ Due to its high vapour suppression capacity, **Spill-Sorb®** can greatly reduce combustible vapours eliminating the chance of an explosion. In the case of gasoline, 90% vapour suppression is commonly achieved.
- ▶ **Spill-Sorb®** is available in compressed and loose-filled bags as shown below:



Spill-Sorb® Absorbent Fibre 25L

- ▶ Code: SPSB25
- ▶ Packaging: Loose product
- ▶ Absorbency: 25L
- ▶ Dimensions: 50x35x20cm
- ▶ Weight: approx. 3kg



Spill-Sorb® Absorbent Fibre 90L

- ▶ Code: SPSB90
- ▶ Packaging: 90L of product, compressed into 48L bag
- ▶ Absorbency: 90L
- ▶ Dimensions: 62x40x19cm
- ▶ Weight: approx. 12kg



Spill-Sorb® Absorbent Fibre 150L

- ▶ Code: SPSB150
- ▶ Packaging: 150L of product, compressed into 72L bag
- ▶ Absorbency: 150L
- ▶ Dimensions: 62x40x29cm
- ▶ Weight: approx. 20kg

SPILL-SORB® APPLICATION

Spills on Land

Open the Spill-Sorb® bags and pour over the spill as evenly as possible starting from the outside edge and working towards the centre.

Absorption will begin immediately. The time you need to allow for complete absorption will vary depending on the type of spill you're cleaning up. More viscous spills will require more time. Allow up to 5 minutes for spills to be completely encapsulated.

Using a stiff broom brush the Spill-Sorb® into a pile and pick up with a shovel and pan, placing the waste into a bag or container for disposal.

If any spill residue remains pour a small amount of Spill-Sorb® over the residue and use the broom to work it back and forth until the residue is gone.



Spills on Water

Spill-Sorb® should be scattered across the surface of the water to a sufficient depth to ensure that full absorption will take place. Typically, absorption times will increase by 15% over land use applications. Once sufficient time for absorption has been allowed scoop up the used Spill-Sorb® with a pool scoop or similar and place in a bag or container for disposal.

Disposal

Spill-Sorb® will burn to a residue of less than 2% of its original volume. Spill-Sorb® can also be land filled or land farmed into a usable compost. Spill-Sorb® may be the only oil absorbent containing humic acid which aids in the biodegradation of hydrocarbons through microbial activity. As a result of its natural capillary capacity Spill-Sorb on contact absorbs hydrocarbons or other pollutants such as PCBs very quickly and encapsulates the pollutants indefinitely. Used Spill-Sorb will not leech, or discharge used pollutants, making it clean and easy to handle, and has passed the Toxicity Characteristics Leaching Procedures (TCLP) test with oil. Always check with your local council about the appropriate way to dispose of used Spill-Sorb® in your area.

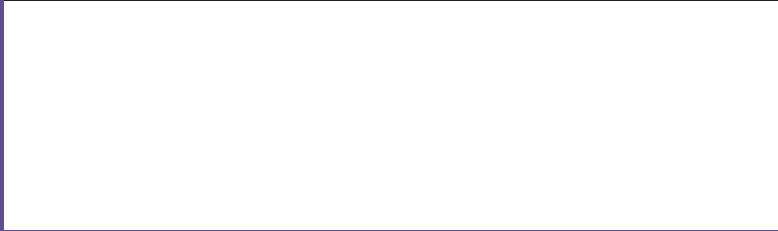
Common uses of Spill-Sorb®

- ▶ Clean up of industrial spills including oils, fuels, paints, solvents, dyes, alcohols, and body fluids.
- ▶ Clean up of household spills
- ▶ Clean up of oil spills on water
- ▶ Removal of oil from animals following environmental spills
- ▶ Effluent filtrations (absorbs dyes, heavy metals and hydrocarbons while letting clean water pass through)
- ▶ Sewage filtration (used in composting toilets)
- ▶ Bioremediation of contaminated land

Some of the substances Spill-Sorb® can safely encapsulate:

- | | | | | |
|------------------------|------------------------|----------------------|---------------------------|------------------------|
| ▶ Acetone | ▶ Canola Oil | ▶ Ethyl Ether | ▶ Methanol | ▶ Scintillation Liquid |
| ▶ Acetone Cyanohydrin | ▶ Carbon Disulphide | ▶ Ethylene Glycol | ▶ Methylene Chloride | ▶ Silicon Oil (100 CS) |
| ▶ Acrolein | ▶ Carbon Tetrachloride | ▶ Gasoline/Petrol | ▶ Methyl Ethyl Keytone | ▶ Styrene |
| ▶ Alcohols | ▶ Chloroform | ▶ Heavy Metals | ▶ Methylphenol | ▶ Solvents |
| ▶ Allylchloride | ▶ Chloromethane | ▶ Herbicides | ▶ Methyl Methacrylate | ▶ Tetrachloroethane |
| ▶ Acetonitrile | ▶ Chlorobenzene | ▶ Heptane | ▶ Motor Oils | ▶ Tetrachloroethylene |
| ▶ Amyl Acetate | ▶ Corn Oil | ▶ Hexane | ▶ Napthalene | ▶ Tetrahydrofuran |
| ▶ Animal Fats | ▶ Crude Oils | ▶ Hexachlorobenzene | ▶ 2-Nitroaniline | ▶ Toluene |
| ▶ Avgas 100/130 | ▶ Cutting Oils | ▶ Hexachlorobutadene | ▶ Nitrobenzene | ▶ Triethylamine |
| ▶ Benzene | ▶ Cyanide Wash | ▶ Hexachloroethane | ▶ Oil Base Paints | ▶ Trichloroethylene |
| ▶ Blood | ▶ Cyclohexane | ▶ Hexane (97%) | ▶ PCBs | ▶ Trichlorophenol |
| ▶ Bunker C Oil | ▶ Dichlorobenzene | ▶ Inks | ▶ Pentane | ▶ Varsol |
| ▶ Butanol | ▶ Dichloromethane | ▶ Isobutanol | ▶ Pentachlophenol | ▶ Vegetable Oils |
| ▶ Butyl Acetate | ▶ 1,2-Dichloroethane | ▶ Isoprene | ▶ Phenol | ▶ Vinyl Acetate |
| ▶ Butyric Acid | ▶ Diesel Fuels | ▶ Isopropanol | ▶ Phenol (48% in acetone) | ▶ Vinyl Chloride |
| ▶ 2-Butanone | ▶ Dyes | ▶ Jet Fuels | ▶ Pesticides | ▶ Xylenes |
| ▶ Bromodichloromethane | ▶ Ethanol | ▶ JP/7 | ▶ Petroleum Ether | |
| ▶ Bromoform | ▶ Ethyl Benzene | ▶ Kerosene/Paraffins | ▶ Propanol | |

DISTRIBUTED BY



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