

TOTAL ABSORB INC.

9311 River Drive • Richmond
British Columbia
V6X 1Z1

Phone: (604) 273-7860

Fax: (604) 273-0502

ALFOB

Absorbent

AND Absorbent "W"



WHERE

ALL LAND SPILLS

Inside and outside

ALL OIL SPILLS

Oceans, creeks, and puddles

CATCH BASINS

MACHINE SHOP AREAS

IN THE BAG CONTROL

HOSPITALS, AIRPORTS and HOME SPILLS

PACKING for TRANSPORT

WHAT

CHEMICALS

DETERGENTS

EFFLUENTS

EMULSIONS

PAINTS

FUELS

OILS

WHY

COST EFFECTIVE

NATURAL WOOD FIBRE

Biodegradable • Nontoxic

DUST FREE • No silica

INCINERABLE

Low ash • Clean Burning

LANDFILL DISPOSABLE

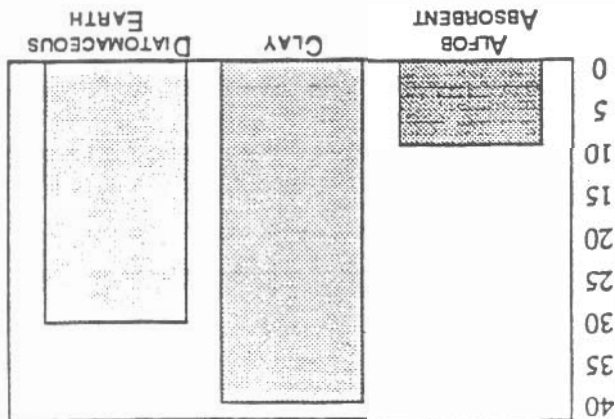
ABSORBS AND RETAINS

Three times its weight

LIGHT WEIGHT • User friendly

Pounds
per Cubic
Foot

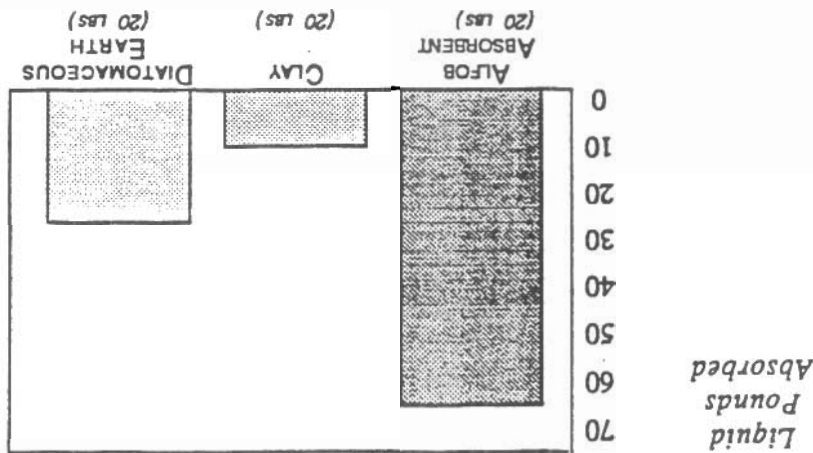
WEIGHT



ALFOB

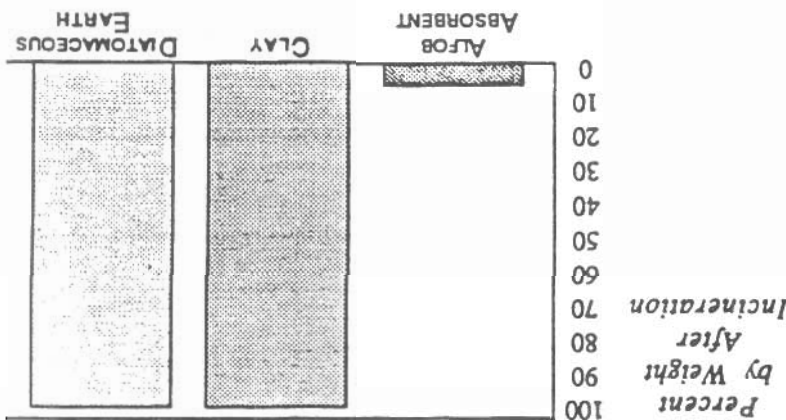


ABSORBENT CAPACITY



Liquid
Pounds
Absorbed

ASH WEIGHT



DATA SOURCE
E.P.A. Report #EPA/600/2-87/047
Guidance Manual for Selection and
Use of Sorbents for Liquid Hazardous
Substance Release

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SUBSTANCES ABSORBED BY ALFOB ABSORBENT

CERCLA LIQUID FUNCTIONAL GROUPS

Acidic compounds <i>[organic]</i>	Esters and ethers
Alcohols and glycols	Esters <i>[halogenous]</i>
Aldehydes	Halides <i>[inorganic]</i>
Aliphatic hydrocarbons	Heavy metals
Aliphatics <i>[halogenous]</i>	Ketones
Amides, anilides, imides	Nitro/nitroso compounds
Amines <i>[alkyl]</i>	Organophosphates
Amines <i>[aryl]</i>	Oxides <i>[alkylene]</i>
Aromatic hydrocarbons	Peroxides
Aromatics <i>[halogenous]</i>	Phenols and cresols
Cyanates and isocyanates	Sulfates and sulfites
Cyanides and nitriles	Sulfides and mercaptans

Source: U.S. Environmental Protection Agency Report #600/2-87/047

Note: Inorganic acids, Caustics, Hydrazines and Hydrazides are not suitable for the use of woodfibre/cellulose absorbents.

EXAMPLES OF LIQUIDS AND CHEMICALS ABSORBED BY ALFOB ABSORBENT

Oils/Fuels	mineral oil, jet fuel, gasoline, diesel, hydraulic fluid, Skypdrol, motor
Coolants	antifreeze, transformer oils <i>[including PCBs]</i> .
Paints	mineral oil and latex base paints, lacquers, shellacs, thinners.
Polymers	water treatment flocculants, viscosity enhancers.
Alcohols	methyl alcohol, ethyl alcohol, isopropyl alcohol.
Medical/Biological	blood, serum, pharmaceuticals, sewage.
Solvents	methyl ethyl ketone <i>[MEK]</i> , methyl isobutyl ketone <i>[MIBK]</i> , tetrahydrofurane <i>[THF]</i> , etc.
Toxics	chromates, cyanides, sulfides, battery acid, etc.
Insecticides/Herbicides ..	diazon, DDT, roundup.

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" Fax: (604) 273-0502

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TECHNICAL DATA SHEET

COMPOSITION DATA

Natural wood fibre (cellulose) in a proprietary preparation. Contains NO silica or mineral

SAFE for the WORK PLACE

21-CFR 186.1673, "General Recognition of Pulp as Safe".

SAFE for the ENVIRONMENT

Tested according to E.P.A. Methods for Measuring Acute Toxicity of Effluents to Fresh Water Marine Organisms, and by the State of Washington D.O.E. 80-12.

SAFE in ANALYSIS

Tested according to E.P.A. Method 613 (IFB #WA.86.K.357);
No Dioxins Method 8240 (Volatile Organics), metals;
Title 22, State of California, soils.

PHYSICAL DATA

Bulk Density

8 pounds per cubic foot
0.13 grams per cubic centimetre

Sorbitive Capacity

Absorbs and retains three times its weight

Dust Content

Less than 1%

Shelf Life

Indefinitely stable

Combustion

5,000 BTU per pound, incinerates to less than 5% by weight ash residue

SAFETY DATA

Safety Precautions

As appropriate for the spilled chemicals. Additional information on Material Safety Data Sheet (see pages 6-8)

Toxicity

Human - none reported

Environmental - none reported

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MATERIAL SAFETY DATA SHEET

(MSDS)

PRODUCT INFORMATION

Trade Name (as labelled)
Chemical and Common Names

Absorbent, Absorbent "W"
Cellulose, Natural Wood Fibre

Manufacturer's Name

Absorption Corp.

Canadian Distributor
Emergency Telephone
Business Telephone

Total Absorb Inc.
(604) 581-2048
(604) 273-7860

HAZARDOUS INGREDIENTS

<i>Chemical Name</i>	<i>Cas#</i>	<i>%v/v</i>	<i>Exposure</i> TLV · AOGIH	<i>Limits</i> PEL · OSHA	<i>In Air</i> OTHER
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This Product contains NO HAZARDOUS INGREDIENTS, as defined by CFR 21-176-260.

PHYSICAL PROPERTIES

<i>Vapour Density:</i>	N/A	<i>Evaporation Rate (BuAc=1):</i>	N/A
<i>Specific Gravity:</i>	N/A	<i>Melting Point or Range:</i>	N/A
<i>Solubility in Water:</i>	Insoluble	<i>Boiling Point:</i>	N/A

Appearance and Colour: Light grey particles, no odour, low dust. NO ASBESTOS CONTENT.

FIRE and EXPLOSION

Flash Point [method]
450 degrees Fahrenheit (open cup)

Fire Extinguishing Materials

Use appropriate extinguishing material for involved chemicals or materials, CO₂, foam, dry chemical, water spray or fog; Treat unused materials as paper or wood.

Special Fire Fighting Procedures

Incipient fire responders should wear eye protection.
Structural fire fighters must wear SCHA and full protective equipment.

Unusual Fire and Explosion Hazards
None

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Treat symptoms of exposure.
No human toxicity known or reported.

RECOMMENDATIONS TO PHYSICIANS

None

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

This product's ingredients are NOT FOUND on the following lists:
• Federal OSHA Z List • NTP • IARC • CAL/OSHA

SUSPECT CANCER AGENT?

If product has been ALTERED by sorption or hazardous chemicals or materials, immediately begin decontamination with running water and continue for at least 15 minutes. Remove exposed or contaminated clothing, taking care not to contaminate the eyes. Victim and rescuers must seek immediate medical attention.
If chemical is in eyes, open victim's eyes while under gentle running water. Use sufficient force to open eyelids. Have victim "roll" eyes. Minimum flushing is for 15 minutes.
If chemical is inhaled, remove victim to fresh air and use artificial respiration to support vital functions. Remove or cover gross contamination to avoid exposure to rescuers.
Victim of chemical exposure and all rescuers must be taken for medical attention. Take a copy of Label and MSDS of spilled chemicals to physician or health professional with victim.

FIRST AID - EMERGENCY PROCEDURES

HEALTH EFFECTS or RISKS FROM EXPOSURE (explanation in lay terms)
Acute: None
Chronic: None Known
NO ASBESTOS CONTENT

HEALTH HAZARD INFORMATION
Inhalation: N/A
Contact with Skin or Eyes: N/A
Skin Absorption: N/A
Ingestion: Non Toxic
Injection: N/A