UNION CARBIDE

INTERNAL CORRESPONDENCE

PLAINTIFF'S EXHIBIT UC-722

METALS DIVISION

P. O. BOX 579 · 4625 ROYAL AVE., NIAGARA FALLS, NEW YORK 143

To (Name) Messrs.
Division R. E. Byrne, Jr.
Location G. L. Dickson
B. L. Ingalls
E. J. Kleber
T. P. Norris
Copy to J. E. Walsh

Messrs.
G. R. Adams
W. B. DeAtley
F. J. Shortsleeve
File

Date October 11, 1979

Originating Dept. "Calidria" Asbestos

Answering letter date

Subject UNIVIS & Silane Treated Asbestos

Montello has issued the enclosed Bulletin on UNIVIS (Oil-Wetted 1/8" SSG pellets) to about 250 mud service companies and advised them regarding pricing and availability. They are trying to determine the market potential for a dust-controlled product which performs the same as CSV and costs considerably more.

Although Chemical Sealing is proceeding with plans to produce UNIVIS, our engineering will determine the cost to install an oil-wetting system at King City. Chemical Sealing is aware of our intentions.

Two types of oil which can be used for UNIVIS are described in the attached sheets. If any of your customers want to evaluate an oil-wetted product, we can get sample quantities from Chemical Sealing.

Dresser's producer of their silane-treated asbestos product has told Ken Campbell that he expects to require 200-300 TPM of CSV. This is a much higher level than expected but would be great if true. Jack, see what you can find out at Dresser without causing any problems for the compounder or Montello.

John L. Myers

JLM:dal
Enclosure

Ashland Chemicals

SOLVENT 529-2-140

ASHLAND CHEMICAL COMPANY • DIVISION OF ASHLAND OIL, INC.
BOX 2219, COLUMBUS, OHIO 43216 • (614) 889-3333

DATE: May 25, 1979

A. S. T. M. DISTILLATION

	MIN.	MIN.	MAX.
I.B.P.	356° F/180° C		366° F/185° C
50%	368 /186		378 /192
95%	381 /194		391 /200
DRY POINT	386 /196		396 /202
Recovery			98%
COLOR			Water-White
DOCTOR TEST			Negative
CORROSION (3 hr @212°F/100°C			OK
A. P. I. GRAVITY, Average @60°F/15.6°			47.9
WEIGHT, POUNDS PER GALLON, Average @60°F/15.6°C			6.57
FLASH POINT (T.C.C.)			138.2°F/59°C Min
KAURIBUTANOL VALUE			32.5

175° CCC flash
6.61 S Grav.

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Ashland

Ashland Chemical Company
DIVISION OF ASHLAND OIL INC.

INDUSTRIAL CHEMICALS & SOLVENTS DIVISION • P.O. BOX 2219, COLUMBUS, OHIO 43216 • (614) 889-3333

REPLY TO:
P. O. Box 2260
Santa Fe Springs, California 90670
Phone: (213) 685-9333

529-2-66SF
Hi Flash Kerosene
Typical Properties

July 27, 1978

Gravity, API at 60°F	43.5
Gravity, Specific at 60°F	0.8085
Pounds Per Gallon at 60°F	6.73
Flash Point COC °F	193
Aniline Point °F	170.4
Kauri Butanol Value	29.5
Reid Vapor Pressure, Lbs.	< 0.1
Explosive Limits, - lower	1.0
Volume % in Air - upper	6.0
Composition - Volume %	
Toluene/Ethylbenzene	0.0/0.0
C_8 + Aromatics	2
Naphthenes	62
Paraffins	36
Sulfur, ppm	6
Color Saybolt	+30
Distillation, D-86, °F	
Initial Boiling Point	433
10% Recovered	442
50% Recovered	456
70% Recovered	466
90% Recovered	485
End Point	520
Spontaneous Ignition Temperture °F	500
Freezing Point °F	-36
Molecular Weight, Average	193
Solubility Parameter	7.4
Refractive Index 20°C	1.4358
Thermal Conductivity, 60°F BTU/HR/FT/Deg F	0.082
Heat of Vaporization, BTU/Lb.	100
Heat of Combustion, BTU/Lb.	18660

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- - INTRODUCING - -

U N I V I S

Universal viscosifier for all aqueous drilling fluids.

Montello is very proud to introduce you to a new product - - UNIVIS - - and the story behind its development.

More than two years ago, Union Carbide and Montello began a joint effort to develop a truly "dust controlled" asbestos product. Our Super Visbestos has been a leader in performance and economy for many years, and its high density, crushed pellet structure results in very low airborne fiber counts. However, our goal is to offer you a product which will consistently result in counts below 0.1 fibers/cc on a 7 or 8 hour time weighted average (TWA) basis. This level (0.1 fibers/cc) is important from an OSHA compliance standpoint for anyone using asbestos. By a special Program Directive (#300-16) issued October 11, 1978, OSHA has instructed field compliance officers to require medicals for workers exposed to asbestos ONLY if the airborne fiber count is in excess of 0.1 fibers/cc on a 7 or 8 hour TWA. Special clothing, change rooms, lockers, laundering, monitoring and caution signs are also NOT REQUIRED *when exposure levels are maintained below 0.1 fiber/cc.*

After extensive laboratory and field evaluations, documented by equally extensive monitoring, we are pleased to announce UNIVIS. With reasonable care in housekeeping and application, airborne fiber counts should not only be well below 0.1/fibers/cc TWA, but should be virtually indistinguishable from background concentrations.

The key to dust control with UNIVIS is the carefully metered addition of a specially selected oil to a unique 1/8 inch diameter pellet of presheared asbestos. Although more expensive than adding water, our tests indicate that the oil is much more effective and reliable in suppressing dust. This is especially true when accidental spills or bag breakage occur. The oil wet material retains substantially all of its dust control properties up to several weeks. The water treated material on the other hand, begins drying out almost immediately, with a commensurate decline in dust control properties. Since spills and bag breakage are sometimes unavoidable, we decided not to utilize the less dependable protection of water for vital dust control.

Of course an oil wet material posed packaging problems. The solution was found in the same kind of polypropylene lined multiwall kraft paper bag that has proven to be capable of withstanding diesel oil treated fertilizer packaged for certain explosives applications.

Another question arose as to the possible difficulty of adding UNIVIS to the aqueous drilling fluid. Would the oil coated surface adversely affect dispersion of the asbestos pellets into the system? Lab tests and field tests have revealed that just the reverse is true. By softening and lubricating the surface of the pellets, the oil actually enhances the rate of dispersion.

In order to maximize accuracy in evaluating dust controlled UNIVIS, great care was taken in designing the monitoring program. The first commercially produced truckload of UNIVIS was shipped to north central Texas, where seven rig locations were selected for evaluation. The locations were premonitored for several hours the day before UNIVIS was used to establish an accurate background count. On the days when UNIVIS was used, accuracy of the TWA was assured by virtually continuous monitoring throughout the shift. Nearly 250 filter samples were collected and airborne concentrations were determined in accordance with OSHA requirements.

The resulting report contains 78 pages of detailed analysis. The highest TWA was less than one-half of the OSHA Directive level of 0.1 fibers/cc. Our goal of developing a truly dust controlled asbestos has been realized - - - - and not just for standard handling, but for the occasional and unavoidable spill.

A summary of this ~~lengthy~~ comprehensive report is available at no charge. Please contact us for a copy, or if you want any further information. We'll gladly accept your collect calls at 918+665-1170.