December 1, 1970

Mr. M. Thomas Merchant
Quality Control
Cimcool Laboratories
Products Division
Cincinnati Milacron Company
P. O. Box 9013
Cincinnati, Ohio 45209

Dear Mr. Merchant:

In reply to your letter of 11/10/70 we can supply the following information.

1) Chemistry MCS 1004 and MCS 1008 are mixtures of monochlorobiphenyl and polychlorinated polyphenyls. These materials are not expected to be refractory and should degrade naturally if accidentally released into the environment. Biodegradation testing is underway at this time.

MCS 1004 was formulated to provide the same viscosity at 100°F. as Aroclor 1254.

MCS 1008 represents the highest per cent chlorine possible with this chemistry without being a solid at room temperature.

These blends differ in the ratio of the two ingredients and in the level of terphenyl chlorination.

2) Specifications

MCS 1004

Characteristics	Range	Typical	ASTM Method
Appearance	Clear yellow liquid	--	--
Specific Gravity (25/25°C.)	1.37 - 1.41	1.392	E-100
Acidity mgKOH/g	0.05 max.	0.02	D-664/D-974
Moisture, ppm	250 max.	200	D-1744
Viscosity @ 100°F.	420 - 540 cs	505 cs	D-445
Flash Point COC, °C.	305 min.	325	D-92
Fire Point, °F.	410 min.	430	D-92

MCS 1008

Characteristics	Range	Typical	ASTM Method
Appearance	Clear yellow resin	-	-
Specific gravityq @ 90/90°C.	1.45-1.48	1.464	E-100
Acidity mgKOH/g	0.05 max.	0.02	D-664/D-974
Moisture, ppm	250 max.	180	D-1744
Viscosity @ 210°F.	38 - 44 cs	40.7	D-445
Flash Point COC, °F.	300	320	D-92
Fire Point, °F.	400	420	D-92

Sales are made on the basis of the above specifications. Chemical assays are not necessary at the customer level.

3) Toxicology Acute and oral toxicity as well as skin and eye irritation testing on rats and rabbits will be available on these blends in one month.

The ingredients for MCS 1004 and MCS 1008 have been marketed for many years by Monsanto. They are classed as slightly toxic when administered orally to rats or applied to the skin of rabbits.

It is advised that repeated or prolonged skin contact be avoided. In case of accidental skin contact wash off with soap and water.

In case of eye contact flush out with water.

Should you have additional questions please feel free to contact me.

Sincerely yours,

David A. Hall
Product Specialist
Industrial Fluids

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