Monsanto

COMPANY CONFIDENTIAL

FROM (NAME & LOCATION) W. C. Engman - WGK

DATE : September 21, 1970

SUBJECT : PROPERTIES OF ALTERNATES FOR THERMINOL FR-2

REFERENCE :

cc: Messrs. S. H. Jackson
B. W. Corlew
R. M. McCutchan
A. L. Rasmussen
W. A. Krull

TO : Messrs.
D. C. Armstrong
G. C. Vincent
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Attached is a chart made up by Steve Henderson which compares the properties of the various alternates for Therminol FR-2.

This may be of some help in your work. At last word, Dept. 255 will be switching to Therminol 66 to solve their pollution problem.

Bill

W. C. Engman
Technical Services Dept.

/br
Att.

DSW 296683

STLCOPCB4066596

PROPERTIES FOR FR-2	DOWTHERM A	THERMINOL FR-1	THERMINOL-66	HTF-17 (UNION CARBIDE)	THERMINOL-55	MOBILTHERM 600
MAX. OPERATING TEMP.	400°C	354°C	345°C	317°C	317°C	317°C
FLAMMABLE	YES	NO	YES	YES	YES	YES
BIO-DEGRADEABLE	YES	NO	YES	YES	YES	YES
CORROSION EFFECTS	MINIMAL	YES	MINIMAL	MINIMAL	MINIMAL	MINIMAL
FLASH POINT	123°C	—	180°C	~180°C	181°C	183°C
FIRE POINT	134°C	—	200°C	~250°C	210°C	—
AUTOIGNITION	—	NO	374°C	YES	355°C	—
OXIDATIVE DECOMPOSITION	—	NO	YES	YES	YES	YES
SIGNIFICANT VAPOR PRES.	MUST OPERATE UNDER PRES.	4 psig AT 354°C	NO	NO	NO	NO
BOILING POINT	260°C	~340°C	340-395°C	—	—	345°C

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