

US EPA ARCHIVE DOCUMENT

REGISTRATION SUPPORT AND EMERGENCY RESPONSE BRANCH

REGISTRATION DIVISION (TS-767)

PRODUCT CHEMISTRY REVIEW ON NEW CHEMICALS

FEB 10 1984

FROM: Bhushan Mandava, Chemist
Registration Support and
Emergency Response Branch

Bhushan Mandava
2/10/84

TO: Robert Taylor (PM 25)
Registration Division (TS-767)

REQUESTOR: American Cyanamid Company

REGISTRATION NO: 241-ETG ACCESSION NO. 251500

Action Code 115

SHAUGHNESSY CODE: 128829

CAS NO. Not furnished

CHEMICAL NAME: 2-[4,5-Dihydro-4-methyl-4-(1-methylethyl)-5-oxo-

1H-imidazol-2-yl)-3-pyridine carboxylic acid-2-propanamin
TRADE NAME: ARSENAL (1:1) salt
CL 252,925 OYAC 252,925

USE: Herbicide

PRODUCT CHEMISTRY: American Cyanamid submitted a EUP request, SCEPTER (241-EUP-RND) for the parent chemical (code 128821) to test on soybeans

I pointed out data gaps (Product Chemistry) on that petition. In this petition the company uses the chemical (SCEPTER) in the form of isopropylamine salt. The information on the product chemistry of SCEPTER (CL 243997) especially on manufacturing process and product identification is not adequate. Adequate information on the analytical method and physical properties.

RESIDUE DATA: _____

ADDITIONAL DATA NEEDED: CAS Registry No., Process information and

spectral or other information for the identification of ARSENAL and
Certified limits

RECOMMENDATION: _____

Do not approve.

PRODUCT CHEMISTRY REVIEW FOR NEW CHEMICALS

PRODUCT SPECIFIC DATA FOR ARSENAL

FEB 10 1984

TECHNICAL

MANUFACTURING USE PRODUCT

END-USE PRODUCT

EPA REGISTRATION NO.

REGISTRATION GUIDELINE NO	NAME OF TEST	DATA RECEIVED FROM PM	DATA REVIEWED BY RSERB
163.61-3	Product Identity and Disclosure ingredients	yes	yes - not edge
-4	Description of Manufacturing process	yes	yes - not edge
-5	Discussion on formation of unintentional ingredient	yes	yes - adequate
-6	Declaration certification of ingredient limits	yes	yes - not adequate
-7	Product analytical methods and data	yes	yes
163.61-8(1)	Color <i>Technical & end use pr</i>	yes	yes
-8(2)	Odor <i>Technical & end use pr</i>	yes	yes
-8(3)	Melting Point <i>Tech.</i>	yes	yes
-8(4)	Solubility <i>Tech.</i>	yes	yes
-8(5)	Stability <i>Technical & End use pr</i>	yes	yes
-8(6)	Octanol/water partition coefficient <i>Tech.</i>	yes	yes
-8(7)	Physical State <i>Technical & end use pr</i>	yes	yes
-8(8)	Density or specific gravity <i>Tech.</i>	yes	yes
-8(9)	Boiling point	N/A - Technical	N/A
-8(10)	Vapor Pressure	no	NO
-8(11)	pH <i>Technical & End use product</i>	yes	yes
-8(12)	Storage Stability	no (Sleptin - tests are in progress)	NO
-8(13)	Flammability	no	NO
-8(14)	Oxidizing or reducing action	N/A	N/A
-8(15)	Explosiveness	no	NO
-8(16)	Miscibility	yes	yes
-8(17)	Viscosity <i>End use product</i>	yes	yes
-8(18)	Corrosion Characteristics <i>End use product</i>	yes	yes
-8(19)	Dielectric breakdown voltage	N/A	N/A
	<i>Dissec. Const. Tech.</i>	yes	yes

Note: Request for samples ^(1 gram) from the registration for EPA evaluation - send sample to Warren Bontoyan at Beltsville Lab.

Bhushan Mandava
N. Bhushan Mandava