

U. S. ATOMIC ENERGY COMMISSION  
BYPRODUCT MATERIAL LICENS

License No. 24-01113-1  
Page 1 of 3 Pages

Amendment No. 04

Pursuant to the Atomic Energy Act of 1954 and Title 10, Code of Federal Regulations, Chapter 1, Parts 30, 32, 33, 34, and 35, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, own, possess, transfer and import byproduct material listed below; and to use such byproduct material for the purpose(s) and at the place(s) designated below. This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, and is subject to all applicable rules, regulations, and orders of the Atomic Energy Commission now or hereafter in effect and to any conditions specified below.

<p>Licensee</p> <p>1. Monsanto Company</p> <p>2. 8201 Idaho Avenue St. Louis, Missouri 63111</p>		<p>In accordance with application dated January 11, 1967</p> <p>3. License number 24-01113-13 is amended in its entirety to read as follows:</p> <p>4. Expiration date January 31, 1969</p> <p>5. Reference No.</p>
<p>6. Byproduct material (element and mass number)</p> <p>A. Cesium 137</p> <p>B. Cesium 137</p>	<p>7. Chemical and/or physical form</p> <p>A. Sealed Sources (U. S. Radium Corp. Model LAB-713-E)</p> <p>B. Sealed Source (U. S. Nuclear Model B-0126)</p>	<p>8. Maximum amount of radioactivity which licensee may possess at any one time</p> <p>A. 5 sources of 750 millicuries each. Total - 3.75 curies.</p> <p>B. 150 millicuries</p>

9. Authorized use

- A. To be used in Ohmart Corporation Model ASR-3 source holders to measure specific gravity of lime slurry in pipe lines.
- B. To be used in an Ohmart Model HM-8 source holder to measure the specific gravity of a liquid in a vessel or pipe.

CONDITIONS

10. Byproduct material may only be used at the licensee's address stated in Item 2 above.
11. The licensee shall comply with the provisions of Title 10, Part 20, Code of Federal Regulations, Chapter 1, "Standards for Protection Against Radiation."
2. Byproduct material shall be used by, or under the supervision of, W. S. Henderson or E. R. Billen.

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U. S. ATOMIC ENERGY COMMISSION  
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Supplementary Sheet

License Number 24-01113-13

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(continued)

CONDITIONS

13. Sealed sources containing byproduct material shall not be opened or removed from their respective source holders by the licensee.
14. A. Each sealed source containing byproduct material, other than Hydrogen 3, with a half-life greater than thirty days and in any form other than gas shall be tested for leakage and/or contamination at intervals not to exceed three years. In the absence of a certificate from a transferor indicating that a test has been made within six months prior to the transfer, the sealed source shall not be put into use until tested.  
  
B. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surfaces of the device in which the sealed source is permanently mounted or stored on which one might expect contamination to accumulate. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the Commission.  
  
C. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Commission regulations. A report shall be filed within 5 days of the test with the Director, Division of Materials Licensing, U. S. Atomic Energy Commission, Washington, D. C., 20545, describing the equipment involved, the test results, and the corrective action taken. A copy of such report shall also be sent to the Director, Region III, Division of Compliance, USAREC, Oakbrook Professional Building, Oak Brook, Illinois, 60523.  
  
D. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically authorized by the Commission or an agreement State to perform such services.

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(continued)

CONDITIONS

15. Except as specifically provided otherwise by this license, the licensee shall possess and use byproduct material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in his application dated January 16, 1963 and in letters dated August 14, 1963 and September 17, 1963, from E. R. Billen.

For the U. S. Atomic Energy Commission

Original Signed By  
Robert E. Brinkman

by Isotopes Branch

Division of Materials Licensing  
Washington, D. C. 20545

Date JAN 27 1967

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WERN/8c

REP 1/27/67

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# LICENSE CONTROL FORM

<b>APPLICANT</b>  Monsanto Chemical Company 8201 Idaho Avenue St. Louis, Missouri 63111	<b>LICENSE NUMBER</b>	<b>Amnd. No.</b>	<b>EXPIRATION DATE</b>		<b>CONT<sup>o</sup></b> <b>NU<sup>o</sup> R</b>  9-87  91587
	24-01113-13	4	1/31/69		
	<b>DATE REC'D</b>	<b>DATE ISSUED</b>	<b>PMUS</b>	<b>ASG</b>	
	01/13/67	- - - - -	614	BER	

( ) LETTER ( ) APPLICATION DATED: \_\_\_\_\_

BYPRODUCT	CHEMICAL OR PHYSICAL FORM	POSS. LIMIT
A = same B = same		

A = same  
B = same

(1A)  
(5)  
DATE 4  
(19)  
(1A, B, C, D) - 3 yrs  
by the licensee or by the present law 16 award #1

<b>MAIL TO:</b>	<i>Both</i> <i>Mail. Supl.</i>	<b>DATE MAILED:</b>	JAN 27 1967	<b>REVIEWER:</b>	WEL REM	<b>DATE COMPLETED:</b>	1-18-67 1-27-67
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