

U. S. ATOMIC ENERGY COMMISSION
BYPRODUCT MATERIAL LICENSE

Pursuant to the Atomic Energy Act of 1954 and Title 10, Code of Federal Regulations, Chapter 1, Part 20, Licensing of Byproduct Material, 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 182 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.

Licensee		
1. Name	Monsanto Chemical Company	3. License number
2. Address	5201 Idaho Avenue St. Louis 11, Missouri	24-1113-13 (.65)
		4. Expiration date
		January 31, 1965
		5. Reference No.
6. Byproduct material (element and mass number)	7. Chemical and/or physical form	8. Maximum amount of radioactivity which licensee may possess at any one time
A. Cesium 137	A. Sealed Sources (U. S. Radium Corp. Model LB-713-2)	A. Four sources of 750 millicuries each. Total - 3 curies
9. Authorized use		
A. To be used in Ohmart Corporation Model MSR-3 source holders to measure specific gravity of lime slurry in pipe lines.		

CONDITIONS

10. Unless otherwise specified, the authorized place of use is 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".
12. Byproduct material shall be used by, or under the supervision of, W. S. Henderson or E. R. Billen.
13. The licensee shall not open or remove sealed sources containing byproduct material from their respective source holders.
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 six months. In the absence of a certificate from a transferor indicating that a test has been made six months prior to the transfer, the sealed source shall not be put into use until tested.

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Supplementary Sheet

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(135)

14. 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 five days of the test with the Director, Division of Licensing and Regulation, U. S. Atomic Energy Commission, Washington 25, D. C., 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, US-33, Oakbrook Professional Building, Oak Brook, Illinois.
- D. Tests for leakage and/or contamination shall be performed by the licensee in accordance with procedures described in his application dated January 16, 1963, or by other persons specifically authorized by the Commission to perform such services.
15. Installation, relocation, maintenance, repair, and initial radiation survey of devices containing byproduct material and installation, replacement and disposal of sealed sources containing byproduct material used in devices shall be performed only by the Olinart Corporation or other persons specifically authorized by the Commission to perform such services.
16. 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.

Date JAN 28 1963

For the U. S. Atomic Energy Commission

by Robert E. Brinkman
Isotopes BranchDivision of Licensing and Regulation
Washington 25, D. C.

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Supplementary Sheet

THIS SUPPLEMENTARY SHEET

License Number 24-1113-13
(185)

Amendment Number 1

Monsanto Chemical Company
8201 Idaho Avenue
St. Louis 11, Missouri

Attention: W. S. Henderson
E. R. Billen

In accordance with letters dated August 14, 1963 and September 17, 1963 from E. R. Billen, License Number 24-1113-13 is amended as follows:

Subitem 8 A is amended to read:

8. ... 5 sources of 750 millicuries each. Total - 3.75 curies.

Conditions 15 and 16 are amended to read:

15. Installation, replacement, and disposal of sealed sources containing byproduct material used in devices shall be performed only by the Ohmart Corporation or by other persons specifically authorized by the Commission to perform such services.
16. 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

Robert E. Brinkman

by Isotopes Branch
Division of Licensing and Regulation
Washington 25, D. C.

Date SEP 26 1963

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