

NRC FORM 7
(02-2016)
10 CFR 110

U. S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0027

EXPIRES: 11/30/2018

**APPLICATION FOR NRC EXPORT OR IMPORT
LICENSE, AMENDMENT, RENEWAL,
OR CONSENT REQUEST(S)**
(See Instructions on Pages 4 and 5)

Estimated burden per response to comply with this mandatory collection request: 2.4 hours. This submittal is reviewed to ensure that the applicable statutory, regulatory, and policy considerations are satisfied. Send comments regarding burden estimate to the FOIA, Privacy, and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to Infocollections.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0027), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

PART A. FOR NRC USE ONLY	<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC	DATE RECEIVED 4/4/18
LICENSE NUMBER XMAT 445	DOCKET NUMBER 11006306	ADAMS ACCESSION NUMBER

PART B. TO BE COMPLETED FOR ALL LICENSES, AMENDMENTS, RENEWALS, OR CONSENT REQUESTS

(If more space is needed to complete any of the items, use Pages 3-4 first, and then attach additional sheets, if necessary.)

1. NAME AND ADDRESS OF APPLICANT/LICENSEE Sigma Aldrich Co. LLC 3050 Spruce Street St. Louis, MO 63103 Attn: Jared Fenton	1a. NAME OF APPLICANT'S CONTACT Jared Fenton	1b. APPLICANT'S REFERENCE NUMBER
	1c. PHONE NUMBER (314) 286-8326	1d. FAX NUMBER (314) 286-8005
	1e. E-MAIL ADDRESS jared.fenton@sial.com	

2. TYPE OF ACTION REQUESTED (Check One)		CONSENT REQUEST (Parts B, C)	
<input checked="" type="checkbox"/> EXPORT (Parts B, C, E)	<input type="checkbox"/> IMPORT (Parts B, D, E)	<input type="checkbox"/> AMENDMENT/RENEWAL Current License Number:	<input type="checkbox"/> CONSENT REQUEST Current License Number:

3. CONTRACT NUMBER(S) N/A	4. FIRST SHIPMENT DATE To be determined	5. LAST SHIPMENT DATE To be determined	6. PROPOSED EXPIRATION DATE 3/1/2023
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PART C. TO BE COMPLETED FOR EXPORT LICENSES, AMENDMENTS, OR RENEWALS

(If more space is needed to complete any of the items, use Pages 3-4 first, and then attach additional sheets, if necessary.)

7. NAME(S) / ADDRESS(ES) OF SUPPLIERS AND/OR OTHER PARTIES TO THE EXPORT See additional information page	8. NAME(S) / ADDRESS(ES) OF INTERMEDIATE FOREIGN CONSIGNEE(S) N/A	9. NAME(S) / ADDRESS(ES) OF ULTIMATE FOREIGN CONSIGNEE(S) Esteve Química, S.A. Poligon Industrial, s/n 17460 Celrà (Girona) Spain see additional information for more addresses	
7a. FUNCTION(S) PERFORMED/SERVICE(S) PROVIDED See additional Information page	8a. INTERMEDIATE USE(S) N/A	9a. ULTIMATE END USE(S) See additional information page	

10. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES, EQUIPMENT, OR COMPONENTS; FOR NUCLEAR EQUIPMENT INCLUDE TOTAL DOLLAR VALUE OF EQUIPMENT FOR EXPORT Deuterium in the form of deuterated compounds, deuterium oxide, deuterium gas	10a. MAX TOTAL VOLUME / ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq) 5000KG	10b. MAX ENRICHMENT OR WGT %	10c. MAX ISOTOPE WGT (KG)
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11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME) Deuterium is of Canadian origin

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PART D. TO BE COMPLETED FOR IMPORT LICENSES, AMENDMENTS, OR RENEWALS
(If more space is needed to complete any of the items, use Pages 3-4 first, and then attach additional sheets, if necessary.)

12. NAME(S) / ADDRESS(ES) OF FOREIGN SUPPLIERS AND/OR OTHER PARTIES TO IMPORT N/A	13. NAME(S) / ADDRESS(ES) OF INTERMEDIATE CONSIGNEE(S) N/A	14. NAME(S) / ADDRESS(ES) OF ULTIMATE U. S. CONSIGNEE(S) N/A	
12a. NRC EXPORT LICENSE NUMBER(S) (if applicable) N/A	13a. LICENSE NUMBER(S) / EXPIRATION DATE(S) N/A	14a. LICENSE NUMBER(S) / EXPIRATION DATE(S) N/A	
	13b. INTERMEDIATE USE(S) N/A	14b. ULTIMATE END USE(S) N/A	
15. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES N/A	15a. MAX TOTAL VOLUME / ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq) N/A	15b. MAX ENRICHMENT OR WGT % N/A	15c. MAX ISOTOPE WGT (KG) N/A
16. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME) N/A			

PART E. TO BE COMPLETED FOR ALL LICENSES, AMENDMENTS, RENEWALS OR CONSENT REQUEST(S)

17. ADDITIONAL INFORMATION PROVIDED ON PAGES 3, 4, AND/OR ON SEPARATE SHEETS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	17a. COPIES OF RECIPIENTS' AUTHORIZATIONS PROVIDED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
18. CERTIFICATION: I, the applicant's authorized official, hereby certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, and that all information provided is correct to the best of my knowledge.	
18a. PRINT NAME AND TITLE OF AUTHORIZED OFFICIAL Jared Fenton Head of Trade Compliance, USA	18b. SIGNATURE – AUTHORIZED OFFICIAL 
18c. DATE 3/26/18	

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ADDITIONAL INFORMATION (Reference applicable block numbers from page 1 and/or page 2 for each entry)

Block 7

Aldrich Chemical Co. LLC
6000 N. Teutonia Avenue
Milwaukee, WI 53209

Aldrich Chemical Co. LLC
3858 Benner Road
Miamisburg, OH 45342

Aldrich Chemical Co. LLC
6950 Ambassador Drive
Allentown, PA 18106

Block 7a

Sigma-Aldrich will sell the various deuterium compounds to the ultimate consignee listed in Part C, Box 9.

Block 9

Esteve Química, S.A.
Ctra. Del Vendrell a St. Jaume dels Domenys, km 5
43711 Banyeres del Penedès (Tarragona)
Spain

Esteve Química, S.A.
c/Caracas, 17-19
08030 Barcelona
Spain

Block 9a

Sigma-Aldrich products are for research purposes only. This type of scientific research may include identification of chemicals in reaction pathways, metabolic studies, or environmental analysis. Most products are sold in prepackaged units and delivered directly to the end-user/research facility. No material is to be used in any activity related to isotope separation, heavy water production, or in the fabrication of nuclear fuel.



March 27, 2018

Deputy Director
Office of International Programs
U.S. Nuclear Regulatory Commission
Washington DC 20555-001

Dear Deputy Director,

Enclosed are Sigma-Aldrich's Applications for NRC Specific Export licenses.

I have been in contact with Joanne Savoy, Licensing Assistant, and she has informed me the fee would be \$4500 for each application. The email confirmation and the check are enclosed.

Please reach out to me if you have any questions or concerns.

Best regards,

Annette Chandler

Trade Compliance Specialist

MilliporeSigma

A business of Merck KGaA, Darmstadt, Germany

Sigma-Aldrich Corp | 545 S Ewing Ave | Saint Louis MO 63103 | USA

P: +1.314.286.8069 | F: +1.314.286.8005

email: annette.chandler@sial.com