

NRC FORM 7 (8-2011) 10 CFR 110		U.S. NUCLEAR REGULATORY COMMISSION		APPROVED BY OMB: NO. 3150-0027		EXPIRES: 08/31/2012	
APPLICATION FOR NRC EXPORT OR IMPORT LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S) <i>(See Instructions on Pages 4 and 5)</i>				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 Information Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to Infocollects.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 JAN 31 2017 SF			
LICENSE NUMBER XMAT438		DOCKET NUMBER 11006253		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		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)							
<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 (Parts B, C) 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 02/01/2022	
PART C. TO BE COMPLETED FOR EXPORT LICENSES, AMENDMENTS, RENEWALS OR CONSENTS (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) H. Lundbeck A/S. Lumsas ODDENVEJ 182 - Lumsas 4500 Nykobing SJ/-elland Denmark			
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) 2,000KG		10b. MAX ENRICHMENT OR WGT %		10c. MAX ISOTOPE WGT (KG)	
11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME) Deuterium is of Canadian origin							

Rec'd SF
JAN 31 2017

18c. DATE 12/20/16	18b. SIGNATURE - AUTHORIZED OFFICIAL <i>[Signature]</i>	18a. PRINT NAME AND TITLE OF AUTHORIZED OFFICIAL Jared Fenton Head of Trade Compliance, USA <i>[Signature]</i>
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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.

17a. COPIES OF RECIPIENTS AUTHORIZATIONS PROVIDED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>	17. ADDITIONAL INFORMATION PROVIDED ON PAGES 3, 4 AND/OR ON SEPARATE SHEETS? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/>
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PART E. TO BE COMPLETED FOR ALL LICENSES, AMENDMENTS, RENEWALS OR CONSENT REQUEST(S)

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

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.)

PUBLIC <input checked="" type="checkbox"/> OR NON-PUBLIC <input type="checkbox"/>	ADAMS ACCESSION NUMBER	DOCKET NUMBER 11004253	LICENSE NUMBER XMAT 438
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APPLICATION FOR NRC EXPORT OR IMPORT LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S) (Continued)

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APPLICATION FOR NRC EXPORT OR IMPORT
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LICENSE NUMBER	DOCKET NUMBER	ADAMS ACCESSION NUMBER	<input checked="" type="checkbox"/> PUBLIC	OR	<input type="checkbox"/> NON-PUBLIC
XMAT438	11006253				

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 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.

JAN 31 2017 Rec'd
SF

December 29, 2016

Deputy Director
Office of International Programs
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

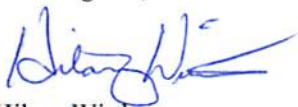
Dear Deputy Director,

Enclosed is Sigma-Aldrich's application for a NRC specific export license. We are submitting this application to be able to capitalize on opportunities in Denmark.

I have been in contact with Stanley Freeman, Licensing Assistant, and he informed me that this request would be classified as "generic assurance" which carries a fee of \$4,800. The email with Mr. Freeman, along with the check is enclosed.

Please reach out to me if you have any questions.

Best Regards,



Hilary Wirth
Export Trade Compliance Specialist
Sigma-Aldrich Co.
545 S. Ewing Ave.
St. Louis, MO 63103
(314) 286-7605
Hilary.Wirth@sial.com

Enclosures