

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)**

(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 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☒ PUBLIC OR ☐ 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)

EXPORT
(Parts B, C, E)IMPORT
(Parts B, D, E)AMENDMENT/RENEWAL
Current License Number: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 EXPORTDeuterium in the form of deuterated compounds, deuterium
oxide, deuterium gas10a. 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

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APPLICATION FOR NRC EXPORT OR IMPORT
LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S) (continued)

LICENSE NUMBER XMAT 438	DOCKET NUMBER 11004253	ADAMS ACCESSION NUMBER	<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC
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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
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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	15a. MAX TOTAL VOLUME / ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq)	15b. MAX ENRICHMENT OR WGT %	15c. MAX ISOTOPE WGT (KG)
N/A	N/A	N/A	N/A

16. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME)

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 RECIPIENT'S AUTHORIZATIONS PROVIDED?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
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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.

18a. PRINT NAME AND TITLE OF AUTHORIZED OFFICIAL Jared Fenton Head of Trade Compliance, USA	18b. SIGNATURE - AUTHORIZED OFFICIAL 	18c. DATE 12/20/16
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Rec'd JAN 31 2017 95

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

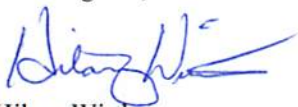
Dear Deputy Director,

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