



National Aeronautics and Space Administration

Office of Infrastructure
Washington, DC 20546-0001

Space Shuttle Transition Working Group

Shuttle Tiles

Disposition Process and Procedures Plan

Preparation:
Logistics Management Division, HQ LMD
Final
6/04/09

Shuttle Tiles Disposition Process and Procedures Plan

Background

The Space Shuttle Program (SSP) is scheduled to end in 2010. As part of the transition to the Constellation Program and retirement of this 30-year American icon, NASA must begin to dispose of Shuttle-related property in a highly disciplined, safe, fair, and open fashion. Given the rich and unique history of the Space Shuttle, the careful assessment of Shuttle-related property as hardware with potential academic or display use is critical to the success of this effort. Each Space Shuttle carries approximately 34,000 separate Thermal Protection System (TPS) tiles. Thirty to 100 tiles are replaced on an orbiter after each mission. Currently, there are approximately 9,000 tiles expected to become available for disposal between now and the end of the program.

HQ's Logistics Management Division (LMD) has been asked to provide guidance and recommendations about the disposition of Space Shuttle orbiter thermal tiles. While LMD provided the clarifying guidance, this document has been coordinated with the Office of External Relations, the Office of Communications Policy, and the Environmental Management Division to address the following:

- ITAR and Export Control Issues.
- Are Shuttle tiles considered hazardous?
- Can or should tiles be sold?
- Public relations and education outreach initiatives.
- Stevenson-Wydler Act transfer authority.
- Tile disposition recommendations.

Applicable Regulations

NPR 4310.1, "Identification and Disposition of NASA Artifacts"

NPR 4300.1A, "NASA Personal Property Disposal Procedural Requirements"

22 USC 2778 (Arms Export Control Act), Section 38

ITAR and Export Control Issues

The Space Shuttle is captured under the International Traffic in Arms Regulations (ITAR) categories IV and XV, which include all specifically designed or modified systems or subsystems, components, parts, accessories, attachments, and associated equipment for the Space Shuttle. The Shuttle Thermal Protection System, including the tiles, is controlled for export purposes under the ITAR. A license from the Department of State is required to transfer the tiles to a foreign person either inside or outside the United States. Any tiles transferred to a U.S. person shall be accompanied by a notice indicating to the recipient the export control classification, license requirements to transfer the tiles to a foreign person, and requirement to comply with U.S. export control laws and regulations.

Are Shuttle tiles considered hazardous?

The silica material in Shuttle tiles is not classified as hazardous either by Federal SARA or CERCLA standards. It is not material regulated by the EPA as hazardous waste, nor is it considered hazardous material for transport. However, the silica fiber material is listed in at least the following states' hazardous substances lists: CA, MA, MN, NJ and PA.

- The silica insulation fiber Material Safety Data Sheet (IC: 1104, Attachment 1), states that the silica fiber diameters vary between 0.3 and 0.8 microns. The World Health Organization and the National Institute for Occupational Safety and Health classify fibers with diameters of less than 3 microns as respirable (able to be inhaled into the lower lung). The data sheet classifies dust from this product as a mechanical irritant, which means that it may cause temporary irritation or scratchiness of the throat and/or itching of the eyes and skin. The carcinogenicity of amorphous silica fibers is not classifiable as to carcinogenicity in humans. (International Agency for Research on Cancer (IARC))¹.

When not disturbed through breakage, division, drilling or other actions that might loosen fibers and make them airborne, the silicon in Shuttle tiles can be handled safely with the proper common protective mask and clothing (gloves and long sleeves). Material from the silica fiber layer should not be ingested. Touching it should be avoided: it may cause minor skin irritations or temporary irritation or redness in the eyes. Until more data is available, it is recommended that the material not be used for live demonstrations that involve placing the material over an open flame. Shuttle tiles should be kept encapsulated in plastic wrapping and protected from breakage when transporting.

Can or Should Tiles Be Sold?

NASA has reviewed this option and concluded that it is preferable to dispose of the tiles through manners other than sale. Additionally, since there is no way to ensure that safe material handling information would accompany the secondary and follow-on sales that would certainly occur over time, NASA may be exposed to possible litigation if personal injuries result from mishandling or abusing tiles.

Public Relations and Education Outreach Initiatives

Tiles are an often-requested and used item by museums and schools for interactive demonstrations on a variety of subjects including lightweight materials and thermal

¹ IARC categorizes agents, mixtures and exposures into five categories:

- [Category 1: carcinogenic](#) to humans.
- [Category 2A: probably carcinogenic](#) to humans.
- [Category 2B: possibly carcinogenic](#) to humans.
- [Category 3: not classifiable](#) as to carcinogenicity in humans.
- [Category 4: probably not carcinogenic](#) to humans.

conductivity. Occasionally, tiles are placed on display but typically they are used in the classroom settings.

In early 2007, NASA HQ Logistics Management Division, in conjunction with the Office of Communication Planning (HQ OCP) and the NASA Artifact Committee, requested input from across the Agency on Shuttle Program assets desired for technical use or for display purposes by NASA visitor centers and the Smithsonian's National Air and Space Museum. Entries became the basis of a Public Display and Outreach "Wish List," which is a preliminary list of hardware NASA believes will be of potential interest to museums and academic institutions. The Wish List identifies the need for 15 boxes each of high temperature (black) tiles and lower temperature (white) tiles by HQ, GRC, JSC, MSFC and LaRC. It is anticipated that NASA internal reuse and educational outreach requests will exhaust all available shuttle tiles.

Stevenson-Wydler Act Transfer Authority

NASA assists in national education goals by the transfer of NASA-owned excess research equipment to educational organizations and nonprofit institutions for the conduct of technical and scientific education and research activities. NASA Property Disposal Officers are responsible for direct transfers of NASA excess research equipment to eligible organizations under the Stevenson-Wydler Act (SWA).

The Act as amended in 1992 specifies that the head of any Federal "agency or department" may give as a gift excess research equipment to an "educational organization or non-profit institution" for education and research activities. Per NASA guidance, direct donations under the SWA are currently limited to eight Federal supply classification groups AND Shuttle thermal protection tiles. A ninth group (training aids) will soon be considered eligible for SWA direct donation (pending document revision) and shuttle tiles used for educational purposes will be considered a part of this group. Detailed information, including requesting procedures and reporting requirements, is explained in NPR 4300.1A.

Recommendations

1. The use of Space Shuttle thermal tiles as educational material can be appropriately managed consistent with the ITAR and hazardous material requirements if/when tiles are tracked, handled, stored and used properly. This plan recommends that tiles continue to be made available through the SWA for academic and research uses as long as recipients are made aware of the hazards and provided information about proper handling. Recipients must agree to use these tiles responsibly. Samples of a *SWA Acceptance Letter*, *Use Acknowledgement Form*, and *Export End-Use Certificate of Transfer* are provided in Attachments 2, 3, and 4, respectively. When tiles are no longer useable or no longer needed, the donee must request disposition instructions from NASA which will entail current protocol for tile destruction.

2. Tiles currently available for transfer are stored at the NASA HQ exhibits and artifacts warehouse in Virginia. Requests for tiles by NASA Centers, Visitor Centers, other NASA offices, , as well as museums, educational and academic institutions qualified under SWA, should be submitted to the NASA Exhibits Manager <Jim.Hull@nasa.gov>.
3. HQ OCP has agreed to notify museums, educational and academic institutions qualified under the SWA to determine the community's demand and potential uses for remaining Space Shuttle tiles. As these items are no longer needed by NASA and become available, NASA will disposition them under the authority of the SWA.
4. Shuttle tiles will not be dispositioned in the Shuttle artifact prescreening process. It is anticipated that all tiles will be requested by, and dispositioned to, NASA Centers or responsible museums, educational, and academic institutions.
5. Any tiles that may require disposition at a future date, and not desired by a museum or academic institution should be destroyed rather than enter the GSAXcess disposition system for sale.
6. Accountability and final discharge instructions (Attachments 1 through 4) should accompany tiles to be donated or transferred which will inform the recipient of the hazards associated with handling the material; recommendations for packing, transporting and storing the material; ITAR responsibilities; and disposal direction. Specific information and recommendations about how to safely use tiles in live demonstrations are provided in Attachment 2. Newly transferred Shuttle tiles retained within NASA for education and outreach purposes should be tracked and treated as ITAR-restricted property by their recipients.
7. The existence of ITAR records for tiles currently on loan within the NASA educational community should be verified and updated. NASA offices should have on file a record of acknowledgement of ITAR sensitivities from recipients for every tile currently on loan to aerospace educators, NASA Education Resource Centers, and NASA exhibit inventories.
8. NASA should make every effort to notify past tile recipients and current users of the tiles for educational demonstrations to take appropriate precautions when handling tiles. NASA Education Resource Centers and others should be advised to include hazard mitigation information in their literature.
9. The Space Shuttle Program should work with NASA Office of External Relations, JSC Academic Affairs, USA, Boeing/Rocketdyne and other appropriate support organizations to draft safe handling, storage and destruction instructions for recipients. Ideally, this information brochure should be in the form of an inexpensive, reproducible template for printed or Web-posted material that could be customized, localized or otherwise changed as necessary and appropriate to make the information more useful to the tile user.

ATTACHMENT 1
SILICA INSULATION FIBER MATERIAL SAFETY DATA SHEET

**Material Name: Microfiber Aerospace Products Material Safety Data
Sheet ID: 1104**

Page 1 of 5 Issue Date: 08/15/2006 Revision: 2.0001

Section 1 - Chemical Product and Company Identification

Product Name Silica Insulation Fibers

CAS# 7631-86-9

Generic Name Silica Fibers

Formula SiO₂

Chemical Name: Amorphous Silica

Hazard Label SPGF-01

Manufacturer Information

Johns Manville Telephone: 303-978-2000 8:00AM-5:00PM M-F
Performance Materials Division Internet Address: <http://www.jm.com>
P.O. Box 5108 Emergency: 800-424-9300 (Chemtrec, In English)
Denver, CO 80127 USA

Trade Names: Q-Fiber® Amorphous High-Purity Silica Fiber; Q-Fiber® Bulk; Q-Fiber® Felt

Section 2 - Composition / Information on Ingredients

CAS # Component Percent

7631-86-9 Amorphous Silica Fibers >98.5

Additional Component Information

Fiber diameter = 0.3-0.8 microns

The World Health Organization (WHO) and the National Institute for Occupational Safety and Health (NIOSH) classify fibers with diameters <3 microns as respirable (able to be inhaled into the lower lung).

Section 3 - Hazards Identification

Emergency Overview

APPEARANCE AND ODOR: White binderless silica fibers in bulk or blanket form. No significant odor. Application: Filtration media, in papers, and as insulation in aerospace vehicles. Inhalation of excessive amounts of dust from the product may cause temporary upper respiratory irritation and/or congestion--remove individual to fresh air.

Potential Health Effects

Summary

Breathing dust from this product may cause a scratchy throat, congestion, and slight coughing. Getting dust or fibers on the skin, or in the eyes may cause itching, rash, or redness. Additional health and safety information is provided in Section 11 of this material safety data sheet.

Inhalation

Irritation of the upper respiratory tract (scratchy throat), coughing, and congestion may occur in extreme exposures.

Skin

Temporary irritation (itching) or redness may occur.

Ingestion

This product is not intended to be ingested (eaten). If ingested, it may cause temporary irritation to the gastrointestinal (digestive) tract.

Eyes

Temporary irritation (itching) or redness may occur.

Primary Routes of Entry (Exposure)

Inhalation (breathing dust), skin, and eye contact.

Target Organs

Throat, upper respiratory passages, lungs, skin, and eyes.

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Medical Conditions Aggravated by Exposure

Pre-existing chronic respiratory, skin, or eye diseases or conditions.

Section 4 - First Aid Measures

First Aid: Inhalation

Remove to fresh air. Drink water to clear throat, and blow nose to remove dust.

First Aid: Skin

Wash gently with soap and warm water to remove dust. Wash hands before eating or using the restroom.

First Aid: Ingestion

Product is not intended to be ingested or eaten. If this product is ingested, irritation of the gastrointestinal (GI) tract may occur, and should be treated symptomatically. Rinse mouth with water to remove fibers, and drink plenty of water to help reduce the irritation. No chronic effects are expected following ingestion.

First Aid: Eyes

Do not rub or scratch your eyes. Dust particles may cause the eye to be scratched. Flush eyes with large amounts of water for 5-15 minutes. If irritation persists, contact a medical professional.

Section 5 - Fire Fighting Measures

Flash Point: Not applicable **Method Used:** Not applicable

Upper Flammable Limit (UFL): Not applicable **Lower Flammable Limit (LFL):** Not applicable

Auto Ignition: Not determined **Flammability Classification:** Not determined

Rate of Burning: Not determined

General Fire Hazards

There is no potential for spontaneous fire or explosion.

Extinguishing Media

Carbon dioxide (CO₂), water, water fog, dry chemical.

Fire Fighting Equipment/Instructions

No special procedures are expected to be necessary for this product. Normal fire fighting procedures should be followed to avoid inhalation of smoke and gases.

Section 6 - Accidental Release Measures

Containment Procedures

Pick up large pieces. Vacuum dusts. If sweeping is necessary, use a dust suppressant such as water. Do not dry sweep dust accumulation or use compressed air for clean-up. These procedures will help to minimize potential exposures.

Clean-Up Procedures

No additional information available.

Section 7 - Handling and Storage

Handling Procedures

Avoid breathing dusts from this material. Use protective equipment as described in Section 8 of this material safety data sheet when handling uncontained material.

Storage Procedures

Warehouse storage should be in accordance with package directions, if any. Material should be kept clean, dry, and protected from moisture.

Section 8 - Exposure Controls / Personal Protection

Exposure Guidelines

A: General Product Information

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

B: Component Exposure Limits

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Safety glasses with sideshields are recommended to keep dust out of the eyes.

Personal Protective Equipment: Skin

Leather or cotton gloves should be worn to prevent skin contact and irritation.

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Personal Protective Equipment: Respiratory

A respirator should be used if ventilation is unavailable, or is inadequate for keeping dust and fiber levels below the applicable exposure limits. In those cases, use a NIOSH-certified disposable or reusable particulate respirator with an efficiency rating of N95 or higher (under 42 CFR 84) when working with this product. For exposures up to five times the established exposure limits use a quarter-mask respirator, rated N95 or higher; and for exposures up to ten times the established exposure limits use a half-mask respirator (e.g., MSA's DM-11, Racal's Delta N95, 3M's 8210), rated N95 or higher. Operations such as sawing, blowing, tear out, and spraying may generate airborne fiber concentrations requiring a higher level of respiratory protection. For exposures up to 50 times the established exposure limits use a full-face respirator, rated N99 or higher.

Ventilation

In fixed manufacturing settings, local exhaust ventilation should be provided at areas of cutting to remove airborne dust and fibers. General dilution ventilation should be provided as necessary to keep airborne dust and fibers below the applicable exposure limits and guidelines. The need for ventilation systems should be evaluated by a professional industrial hygienist, while the design of specific ventilation systems should be conducted by a professional engineer.

Personal Protective Equipment: General

Wear a cap, a loose-fitting, long-sleeved shirt and long pants to protect skin from irritation. Exposed skin should be washed with soap and water after handling product. Clothing should be washed separately from other clothes, and the wash machine should be rinsed thoroughly (run empty for a complete wash cycle). This will reduce the chance of silica fiber transfer to other clothing.

Section 9 - Physical & Chemical Properties

Appearance: White binderless silica fibers in bulk or blanket form

Odor: No significant odor

Physical State: Solid **pH:** Not determined

Vapor Pressure: Not determined **Vapor Density:** Not determined

Boiling Point: Not determined **Melting Point:** >704°C/1300

Solubility (H₂O): Nil **Specific Gravity:** variable

Freezing Point: Not applicable **Evaporation Rate:** Not applicable

Percent Volatile: 0 **VOC:** Not determined

Section 10 - Chemical Stability & Reactivity Information

Chemical Stability

This product is not reactive. This is a stable material.

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Acute Toxicity

A: General Product Information

Dust from this product is a mechanical irritant, which means that it may cause temporary irritation or scratchiness of the throat, and/or itching of the eyes and skin.

B: Component Analysis - LD50/LC50

Amorphous Silica Fibers (7631-86-9)

Oral LD50 Rat: >5000 mg/kg; Dermal LD50 Rabbit: >2000 mg/kg

Component Carcinogenicity

Amorphous Silica Fibers (7631-86-9)

IARC: Group 3 - Not Classifiable (IARC Monograph 68 [1997], Supplement 7 [1987])

Section 12 - Ecological Information

Ecotoxicity

A: General Product Information

No data available for this product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Material Name: Microfiber Aerospace Products Material Safety Data

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Amorphous Silica Fibers (7631-86-9)

96 Hr LC50 Brachydanio rerio: 5000 mg/L [static]
 72 Hr EC50 Selenastrum capricornutum: 440 mg/L
 48 Hr EC50 Ceriodaphnia dubia: 7600 mg/L

Section 13 - Disposal Considerations**US EPA Waste Number & Descriptions****A: General Product Information**

This product, as supplied, is not regulated as a hazardous waste by the U.S. Environmental Protection Agency (EPA) under Resource Conservation and Recovery Act (RCRA) regulations. Comply with state and local regulations for disposal. If you are unsure of the regulations, contact your local Public Health Department, or the local office of the EPA.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

Section 14 - Transportation Information

Shipping Name: This product is not classified as a hazardous material for transport.

Section 15 - Regulatory Information**US Federal Regulations****A: General Product Information**

SARA 311/312: This product is not classified as hazardous under SARA 311/312.

B: Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations**A: General Product Information**

Other state regulations may apply. Check individual state requirements.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component CAS #	CA	FL	MA	MN	NJ	PA
Amorphous Silica Fibers 7631-86-9	Yes	No	Yes	Yes	Yes	Yes

Other Regulatory Information**A: General Product Information**

No information available for the product.

B: TSCA Status

This product and its components are listed on the TSCA 8(b) inventory. None of the components listed in this product are listed on the TSCA Export Notification 12(b) list.

C: Component Analysis - Inventory**Component CAS # TSCA DSL EINECS**

Amorphous Silica Fibers 7631-86-9 Yes Yes Yes

Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component CAS # Minimum Concentration

Amorphous Silica Fibers 7631-86-9 1 %

Section 16 - Other Information**Other Information**

Prepared for:

Johns Manville

Performance Materials Division

Material Name: Microfiber Aerospace Products Material Safety Data

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P.O. Box 5108

Denver, CO USA 80217-5108

Prepared by:

Johns Manville Product Stewardship

P.O. Box 625005

Littleton, CO USA 80162-5005

The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

Date MSDS # Reason

08/01/00 1104-1.0000 New MSDS authoring system.

01/20/03 1104-1.0001 Update Sect. 11, IARC Carcinogenicity to Group 3, not classifiable.

11/04/03 1104-2.0000 Section 1 product names: Moved Unbonded Microfiber to MSDS 1015. Moved Micro-Strand 253 to MSDS 1105. Deleted Micro-Strand 753.

03/10/06 1104-2.0001 Section 1 removed High Purity Micro-Quartz from trade names. Section 2 updated composition for silica fibers. Minor edits throughout.

This is the end of MSDS # 1104.

ATTACHMENT 2
SAMPLE SWA ACCEPTANCE LETTER

TA-E1-A

March 12, 2004

Mechanicsburg Exempted Village Schools
Dohron Wilson Elementary
Attn: Mr. Michael E. Nutter
60 High Street
Mechanicsburg, Ohio 43044

Subject: Stevenson-Wydler Technology Utilization Act of 1980

This is in response to your inquiry about the availability of thermal tile. For educational facilities, we require that the school principal (or chancellor/president for universities/colleges) sign the enclosed USE ACKNOWLEDGMENT and EXPORT END-USE CERTIFICATE OF TRANSFER forms. The tile will become the property of the school upon receipt of these signed forms and must be maintained accordingly.

NASA has implemented a policy for disposal of Space Transportation System (STS) materials other than artifacts in conjunction with the Stevenson-Wydler Innovation Act, Public Law 10194-102. Consistent with that policy, thermal tiles (non-flown) may be provided in nominal amounts to non-profit educational organizations for research or technology utilization purposes.

In accepting the thermal tile, it should be understood that neither the United States Government, nor any person acting on behalf of the United States Government, assumes any liability for the use of the thermal tile furnished, or warrants that the use of the thermal tile will be free from privately owned, intellectual property rights. NASA has patents covering various aspects of the tile. The shuttle tile is an export control item that requires a license for shipment overseas or use by a foreign student. No implied license in any NASA patent is to be construed from the furnishing of tile. Inquiries as to the licenses thereunder should be directed to:

Associate General Counsel for Commercial & Intellectual Property Law Practices
Group
Mail Suite: 9T39
National Aeronautics and Space Administration
Washington, D.C. 20546

Also, certain precautions should be taken in handling and cutting the thermal tile, which consist entirely of silica (short, fine glass fibers). Gloves should be used in handling the material; respiratory protective devices should be used when cutting and cleanup activities are in progress; and care should be taken not to get the silica in the eyes. Until more data is available, it is recommended that the material not be used for live

demonstrations that involve placing the material over an open flame. Shuttle tiles should be kept encapsulated in plastic wrapping and protected from breakage when transporting. Our prime concern is for the students; therefore, it is recommended that any cutting of the tile be accomplished under the supervision of the instructor.

In addition, it should be understood that the material furnished to you is being furnished only for technology utilization purposes and should not, under any circumstances, be used for commercial purposes or as souvenirs. A perpetual restriction is placed on the property. When no longer needed, the donee must request disposition instructions from NASA.

If you need additional information, you may contact me at (XXX) XXX-XXXX or FAX (XXX) XXX-XXXX.

To be signed by a NASA
Center Property Disposal Officer

Enclosures

ATTACHMENT 3
USE ACKNOWLEDGEMENT FORM

USE ACKNOWLEDGMENT

This is to acknowledge and confirm that the thermal tiles provided to the undersigned will be used for education, research, or technology utilization purposes only, and that the thermal tiles will not, under any circumstances, be sold for commercial purposes or as souvenirs. One who knowingly makes a fraudulent representation could be subject to a fine or imprisonment (U.S. Code, Title 18, Section 1001).

Official's Typed Name and Signature

Date

Requester's Typed Name and Title

Name of School

Street Address

City, State, and Zip Code

Please return to:

(Add NASA Center Property Disposal Officer
Name and Mailing Address)

ATTACHMENT 4
EXPORT END-USE CERTIFICATE OF TRANSFER

The use, disposition, export and re-export of this NASA property are subject to all applicable United States Laws and Regulations. This includes the Export Administration Control Act of 1979 (50 USC 2401, et seq.), the Arms Export Control Act (22 USC 2751, et seq.), the International Traffic in Arms Regulation (22 CFR 120 et seq.) and the Export Administration Regulation (15 CFR 730 et seq.), which among other things prohibit:

- a. The making of false statements and concealment of any material information regarding the use or disposition, export or re-export of the property.
- b. Any use or disposition, export or re-export of the property not authorized in accordance with the provisions of this contract.

Any false information provided and/or concealment of material information regarding the use, disposition or export of this property may constitute a violation of:

- a. The provisions of 18 USC 1001, which provides a maximum penalty of five years imprisonment and/or a maximum fine of \$10,000.
- b. The provisions of 22 USC 2778, which provides a maximum penalty of ten years imprisonment and/or a maximum fine of \$1,000,000.
- c. The provisions of 50 USC Appx. 2410, which provides a maximum penalty of ten years imprisonment and/or a maximum fine of five times the value of the property exported or 1,000,000, whichever is greater, and which also provides for the administrative sanctions, including civil penalties of up to \$10,000 and the revocation of authority to export goods from the United States.

Subject to this article, the recipient warrants that the item identified and described below will not be used, directly or indirectly or disposed, for military use.

Item Description:

Serial, model or other reference numbers:

Receipt Acknowledged:

Recipient *Date*

Witness *Date*