

Export Control Classification Numbers (ECCNs)

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Introduction

An Export Control Classification Number (ECCN) is used by the U.S. Department of Commerce to categorize items that are subject to export control restrictions. An item's ECCN is the most important information needed when assessing whether your package can be legally shipped to a particular person outside the United States or shared with a foreign national from a particular country. Only materials that are under the jurisdiction of the [Export Administration Regulations \(EAR\)](#) have ECCNs. This includes most items on campus. The goal of the EAR is to prevent the transfer of potentially dangerous technology, tangible items, and software to entities who would use them to undermine the security of the United States and its allies.

IMPORTANT: material that is inherently military, related to nuclear technology or protected infrastructure information, as well as some satellites, are in a [jurisdiction other than the EAR](#), and may be under stricter controls (e.g., ITAR, DEA). [Contact MIT Export Control](#) if this applies to your material.

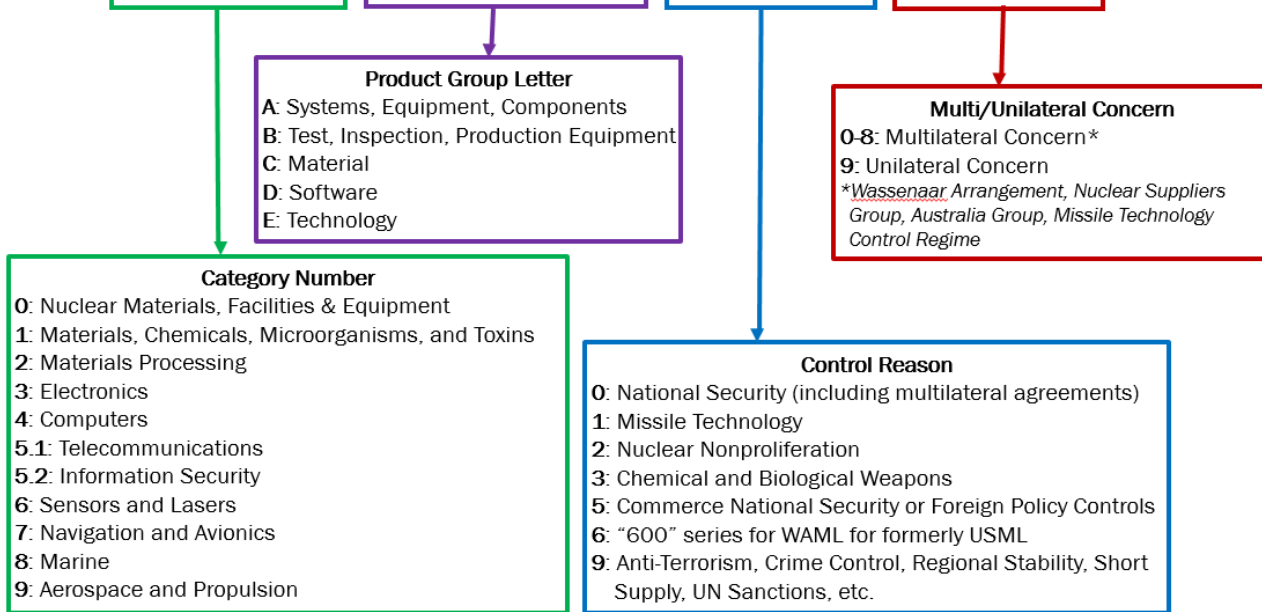
It is best to identify the ECCN before starting your shipment in the eShip Global system.

[How To find an item's ECCN](#): 1) Ask the manufacturer or 2) Self-classify using the table below. To confirm the ECCN, go to the [Commerce Control List \(CCL\) search tool and index](#). 3) [Contact MIT Export Control](#) for additional questions.

Guide to Understanding the ECCN Digits

What is an Export Control Classification Number (ECCN)? An ECCN is a five-digit identifier used by the U.S. Department of Commerce to categorize items subject to export control restrictions, as per the Commerce Control List.

ECCN = **Category Number** + **Product Group Letter** + **Control Reason** + **Multi/Unilateral** + Sequential Number



Example: The ECCN of gas turbine technology is 9E003. The item is propulsion (9), technology (E), controlled for national security (0), controlled as part of a multi-lateral action (0), and it is the third item listed under 9E. By contrast, the ECCN of a gas turbine is 9A001 because "A" indicates that the item is equipment, rather than technology and is the first listed under 9A.

Items without ECCNs

If there is no ECCN for your item, either it is in the jurisdiction of another agency or it is EAR99. EAR99 is the designation for low-technology consumer goods (e.g., a common house fan, office furniture, glass beakers, automobile tires).

The Department of Commerce classifies the majority of commercial items as EAR99. EAR99 can be exported to all countries unless the export is going to a [comprehensively-sanctioned country](#), a prohibited end-user/user of concern, an Entity List or Unverified List organization, or is for a prohibited end-use.

ECCNs for Chemicals

To find the ECCN for chemical shipments, consult the [Category 1 of the Commerce Control List](#).

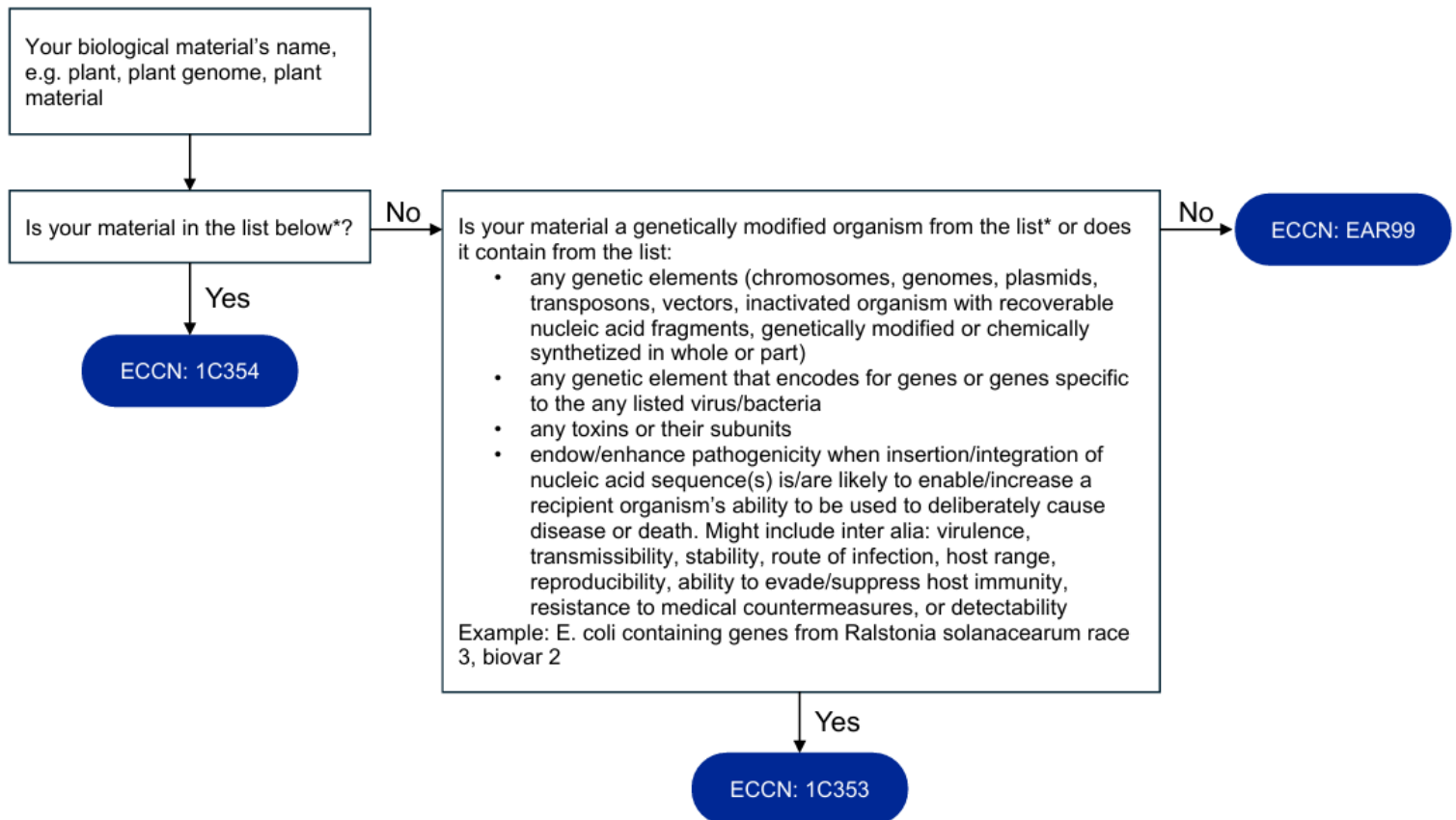
ECCNs for Biological materials

ECCNs for some biological materials are available in the [Biological Plant Pathogens Quick Guide](#) and [Human and Animal Materials Pathogens Quick Guide](#). eShip Global also provides an ECCN lookup tool for biological material, including human, animal, and plant pathogens.

ECCNs for Plant-pathogens (Ctrl+click to download the PDF)



Biological Plant Pathogens Quick Guide



*Export Control Classification Number (ECCN): 1C354 Plant Pathogens, regardless of the quantity or attenuation

Bacteria

Pathogen	ECCN
<i>Xanthomonas albilineans</i>	1C354.a.1
<i>Xanthomonas axonopodis</i> pv. Citri (<i>Xanthomonas campestris</i> pv citri A, <i>Xanthomonas campestris</i> pv citri)	1C354.a.2
<i>Xanthomonas oryzae</i> (<i>Xanthomonas oryzae</i> pv <i>oryzae</i> ; aka <i>Xanthomonas campestris</i> pv <i>oryzae</i>)*	1C354.a.3
<i>Clavibacter michiganensis</i> subspecies <i>sepedonicus</i> (aka <i>Corynebacterium michiganensis</i> subspecies <i>sepedonicum</i> ; <i>Corynebacterium sepedonicum</i>)	1C354.a.4
<i>Ralstonia solanacearum</i> race 3, biovar 2*	1C354.a.5
<i>Raythayibacter toxicus</i> *	1C354.a.6

Fungi

Pathogen	ECCN
<i>Colletotrichum kahawae</i> (<i>Colletotrichum coffeanum</i> var <i>virulans</i>)	1C354.b.1
<i>Cochliobolus miyabeanus</i> (<i>Helminthosporium oryzae</i>)	1C354.b.2
<i>Microcyclus ulei</i> (aka <i>Dothidella ulei</i>)	1C354.b.3
<i>Puccinia graminis</i> ssp. <i>Graminis</i> var. <i>graminis</i> / <i>Puccinia graminis</i> ssp. <i>Graminis</i> var. <i>stakmanii</i> ; <i>Puccinia graminis</i> ; <i>Puccinia graminis</i> f. sp. <i>Tritici</i>)	1C354.b.4
<i>Puccinia striiformis</i> (<i>Puccinia glumarum</i>)	1C354.b.5
<i>Magnaporthe oryzae</i> (<i>Pyricularia oryzae</i>)	1C354.b.6
<i>Peronosclerospora philippinensis</i> (<i>Peronoscleraspora sacchari</i>)*	1C354.b.7
<i>Sclerophthora rayssiae</i> var. <i>zeae</i> *	1C354.b.8
<i>Synchytrium endobioticum</i> *	1C354.b.9
<i>Tilletia indica</i>	1C354.b.10
<i>Thecaphora solani</i>	1C354.b.11
<i>Phoma glycinicola</i> (aka <i>Pyrenochaeta glycines</i>)*	1C354.b.12

Virus

Pathogen	ECCN
Andean potato latent virus (aka Potato Andean latent tymovirus)	1C354.c.1
Potato spindle tuber viroid	1C354.c.2

*Denotes a Select Agent

ECCNs for Human and Animal Pathogens (Ctrl+Click to download the PDF)

Viruses

*Human and Animal Pathogens including “toxins”, ECCN: 1C351

Viruses

Name	ECCN
African horse sickness virus*	1C351a.1
African swine fever virus*	1C351a.2
Andes virus	1C351a.3
Avian influenza (AI) that have intravenous pathogenicity index (IVPI) in a 6 wk-old chicken greater than 1.2*	1C351a.4.a
AI viruses that cause at least 75% mortality in 4- to 8-week-old chickens infected intravenously*	1C351a.4.b.
Avian influenza (AI) viruses of H5 or H7*	1C351.a.4
Bluetongue virus	1C351.a.5
Chapare virus*	1C351.a.6
Chikungunya virus	1C351.a.7
Choclo virus	1C351.a.8
Classical swine fever virus (hog cholera virus)	1C351.a.9
Crimean-Congo hemorrhagic fever virus*	1C351.a.10
Dobrava-Belgrade virus	1C351.a.11
Eastern equine encephalitis virus (EEE)*	1C351.a.12
Ebola virus (includes all members of the Ebolavirus genus) *	1C351.a.13
Foot-Mouth disease virus*	1C351.a.14
Goatpox virus*	1C351.a.15
Guanarito virus*	1C351.a.16
Hantaan virus	1C351.a.17
Hendra virus (Equine morbillivirus) *	1C351.a.18
Japanese encephalitis virus	1C351.a.19
Junin virus*	1C351.a.20
Kyasanur Forest disease virus*	1C351.a.21
Laguna Negra virus	1C351.a.22
Lassa virus*	1C351.a.23
Louping ill virus	1C351.a.24
Lujo virus*	1C351.a.25
Lumpy skin disease virus*	1C351.a.26
Lymphocytic choriomeningitis virus	1C351.a.27
Machupo virus*	1C351.a.28
Marburgvirus (includes all members of the Marburgvirus genus) *	1C351.a.29
Middle East respiratory syndrome-related coronavirus (MERS-related coronavirus)	1C351.a.30

Name	ECCN
Monkeypox virus*	1C351.a.31
Murray Valley encephalitis virus	1C351.a.32
Newcastle disease virus*	1C351.a.33
Nipah virus*	1C351.a.34
Omsk hemorrhagic fever virus*	1C351.a.35
Oropouche virus	1C351.a.36
Peste-des-petits ruminants virus*	1C351.a.37
Porcine Teschovirus	1C351.a.38
Powassan virus	1C351.a.39
Rabies virus and all other members of the Lyssavirus genus*	1C351.a.40
Reconstructed 1918 influenza virus including reconstructed replication competent forms of 1918 influenza containing any portion of the coding regions or all 8 gene segments*	1C351.a.41
Rift Valley fever virus*	1C351.a.42
Rinderpest virus*	1C351.a.43
Rocio virus	1C351.a.44
Sabia virus*	1C351.a.45
Seoul Virus	1C351.a.46
Severe acute respiratory syndrome-related coronavirus (SARS-related coronavirus) *	1C351.a.47
Sheep pox virus*	1C351.a.48
Sin Nombre virus	1C351.a.49
St. Louis encephalitis virus	1C351.a.50
Suid herpesvirus 1 (Pseudorabies virus; Aujeszky's disease)	1C351.a.51
Swine vesicular disease virus*	1C351.a.52
Tick-borne encephalitis virus (Far Eastern subtype, aka Russian Spring-Summer encephalitis) *	1C351.a.53
Variola virus*	1C351.a.54
Venezuelan equine encephalitis virus (VEE)*	1C351.a.55
Vesicular stomatitis virus (VSV)*	1C351.a.56
Western equine encephalitis virus (WEE)*	1C351.a.57
Yellow fever virus*	1C351.a.58
Tick-borne encephalitis virus (Siberian subtype, aka West Siberian virus)	1C351.b.3

Bacteria

Bacteria

Name	ECCN
Bacillus anthracis*	1C351.c.1
Brucella abortus*	1C351.c.2
Brucella melitensis*	1C351.c.3
Brucella suis*	1C351.c.4
Burkholderia mallei (Pseudomonas mallei) *	1C351.c.5
Burkholderia pseudomallei (Pseudomonas pseudomallei) *	1C351.c.6
Chlamydia psittaci (Chlamydomphila psittaci)	1C351.c.7
Clostridium argentinense (aka Clostridium botulinum neurotoxin type G); botulinum neurotoxin producing strains*	1C351.c.8
Clostridium baratii, botulinum neurotoxin producing strains*	1C351.c.9
Clostridium botulinum*	1C351.c.10
Clostridium butyricum botulinum neurotoxin producing strains*	1C351.c.11
Clostridium perfringens, epsilon toxin producing types	1C351.c.12
Coxiella burnetii	1C351.c.13
Francisella tularensis*	1C351.c.14
Mycoplasma capricolum subspecies capripneumoniae ("strain F38") *	1C351.c.15
Mycoplasma mycoides subspecies SC (small colony) aka contagious bovine pleuropneumonia*	1C351.c.16
Rickettsia prowazekii*	1C351.c.17
Salmonella enterica subspecies enterica serovar Typhi (Salmonella typhi)*	1C351.c.18
Shiga toxin producing E. coli (STEC) of serogroups O26, O45, O103, O104, O111, O121, O145, O157 and other shiga toxin producing serotypes *	1C351.c.19
E. coli enterohaemorrhagic (EHEC)*	1C351.c.19
E. coli verotoxin producing (VTEC)*	1C351.c.19
E. coli verocytotoxin producing (VTEC)*	1C351.c.19
Shigella dysenteriae	1C351.c.20
Vibrio cholerae	1C351.c.21
Yersinia pestis*	1C351.c.22

Toxins

Toxins

Name	ECCN
Abrin*	1C351.d.1
Aflatoxins	1C351.d.2
Botulinum toxins, including botox*	1C351.d.3
Cholera toxin	1C351.d.4
Clostridium perfringens alpha, beta 1, beta 2, epsilon and iota toxins*	1C351.d.5
Conotoxins*	1C351.d.6
Diacetoxyscirpenol (DAS)*	1C351.d.7
HT-2 toxin*	1C351.d.8
Mycrocystins (Cyanoginosins)	1C351.d.9
Modeccin	1C351.d.10
Ricin)*	1C351.d.11
Saxitoxin*	1C351.d.12
Shiga toxins (shiga-like toxins, verotoxins, verocytotoxins)	1C351.d.13
Staphylococcus aureus enterotoxins, hemolysin alpha toxin, toxic shock syndrome toxin (aka S. enterotoxin F, TSST) *	1C351.d.14
T-2 toxin*	1C351.d.15
Tetrodotoxin (TTX))*	1C351.d.16
Viscumin (Viscum album lectin 1)	1C351.d.17
Vokensin	1C351.d.18

Fungi

Name	ECCN
Coccidioides immitis	1C351.e.1
Coccidioides posadasii	1C351.e.2

- **Highlighted viruses, bacteria, toxins** – are/has been used on MIT main campus including exemption under Select Agent Toxin Program
- *Denotes: Select Agent or Select Toxin