

List of infectious substances class 6.2, category A

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Safety and Security Unit



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Definitions

“Infectious substances class 6.2, category A” is a term that derives from the transport legislation ADR. The definition of the term is: *an infectious substance which is transported in a form that, when exposure to it occurs, is capable of causing permanent disability, life threatening or fatal disease in otherwise healthy humans or animals.*

Infectious substances of category A are also considered **high consequence dangerous goods**. Such goods have the potential for misuse in a terrorist event and may, as a result, produce serious consequences such as mass casualties or mass destruction. Therefore, *Rules about a security plan for transport of high consequence dangerous goods* (KI rules) must be followed for transport of such infectious goods. These rules can be found at the KI Staff portal under Laboratory safety/Transport of biological specimens and chemical products.

Indicative examples of substances that meet these criteria are given in the table below. **Please note that the following table is not exhaustive.** Infectious substances including new or emerging pathogens, which do not appear in the table, but which meet the same criteria, shall be assigned to category A. If there is any doubt as to whether a substance meets the criteria it shall be included in category A.

Indicative examples of infectious substances included in category A (unless otherwise indicated)	
UN number and Proper shipping name	Microorganism
UN 2814 Infectious substances, affecting humans	<i>Bacillus anthracis (cultures only)</i> <i>Brucella abortus (cultures only)</i> <i>Brucella melitensis (cultures only)</i> <i>Brucella suis (cultures only)</i> <i>Burkholderia mallei – Pseudomonas mallei – Glanders (cultures only)</i> <i>Burkholderia pseudomallei – Pseudomonas pseudomallei (cultures only)</i> Chapare virus <i>Chlamydia psittaci – avian strains (cultures only)</i> <i>Clostridium botulinum (cultures only)</i> <i>Coccidioides immitis (cultures only)</i> <i>Coxiella burnetii (cultures only)</i> Crimean-Congo haemorrhagic fever virus Dengue virus (cultures only) Eastern equine encephalitis virus (cultures only) <i>Escherichia coli, verotoxigenic (cultures only)^a</i> Ebola virus Flexal virus <i>Francisella tularensis (cultures only)</i> Guanarito virus Hantaan virus

^a Nevertheless, when the cultures are intended for diagnostic or clinical purposes, they may be classified as infectious substances of category B (UN3373).

	<p>Hantaviruses causing haemorrhagic fever with renal syndrome Hendra virus Hepatitis B virus (cultures only) Herpes B virus (cultures only) Human immunodeficiency virus (cultures only) Highly pathogenic avian influenza virus (cultures only) Japanese Encephalitis virus (cultures only) Junin virus Kyasanur Forest disease virus Lassa virus Lujo virus Machupo virus Marburg virus Monkeypox virus <i>Mycobacterium tuberculosis (cultures only)</i>^a Nipah virus Omsk haemorrhagic fever virus Poliovirus (cultures only) Rabies virus (cultures only) <i>Rickettsia prowazekii (cultures only)</i> <i>Rickettsia rickettsii (cultures only)</i> Rift Valley fever virus (cultures only) Russian spring-summer encephalitis virus (cultures only) Sabia virus SARS Coronavirus (cultures only) SARS Coronavirus 2 (cultures only) <i>Shigella dysenteriae type 1 (cultures only)</i>^a Tick-borne encephalitis virus (cultures only) Variola virus Venezuelan equine encephalitis virus (cultures only) West Nile virus (cultures only) Yellow fever virus (cultures only) <i>Yersinia pestis (cultures only)</i></p>
UN 2900 Infectious substances, affecting animals only	<p>African swine fever virus (cultures only) Avian paramyxovirus Type 1 – Velogenic Newcastle disease virus (cultures only) Classical swine fever virus (cultures only) Foot and mouth disease virus (cultures only) Goatpox virus (cultures only) Lumpy skin disease virus (cultures only) <i>Mycoplasma mycoides – Contagious bovine pleuropneumonia (cultures only)</i> Peste des petits ruminants virus (cultures only) Rinderpest virus (cultures only) Sheep-pox virus (cultures only) Swine vesicular disease virus (cultures only) Vesicular stomatitis virus (cultures only)</p>

The examples in the table above are taken from ADR-S 2021(MSBFS 2020:9), AFS 2018:4 *Provisions on risks of infection* (all viruses in risk class 4 are assigned to category A) and World Health Organization (2020) *Laboratory biosafety guidance related to coronavirus disease 2019 (COVID-19): interim guidance*, 12 February 2020.

^a Nevertheless, when the cultures are intended for diagnostic or clinical purposes, they may be classified as infectious substances of category B (UN3373).