

**Committee of Experts on the Transport of Dangerous Goods
and on the Globally Harmonized System of Classification
and Labelling of Chemicals**

Sub-Committee of Experts on the Transport of Dangerous Goods

27 June 2024

Sixty-fourth session

Geneva, 24 June-3 July 2024

Item 3 of the provisional agenda

Listing, classification and packing

**Refrigerating machines or heating machines – a revised
proposal**

Transmitted by the expert from Germany

Introduction

1. At the sixty-fourth session of the Sub-Committee, Germany presented document ST/SG/AC.10/C.3/2024/27. The discussion in the Sub-Committee led to several verbal amendments to the original proposal that should be considered in a consolidated version.

2. While preparing the consolidated version, Germany noticed that an additional change would be necessary in special provision 291. Since the proposal as verbally amended introduces the last sentence proposed in special provision 119 also in special provision 291, Germany believes that this sentence should not include “or other appliances” to retain the consistency of special provision 291. In contrast to the text in special provision 119 which includes “other appliances”, the existing text in special provision 291 is limited to refrigerating machines.

3. This change as well as the verbal amendments to the original proposal are included in the proposal shown in paragraphs 4 to 6 below.

Proposal

4. Amend the Dangerous Goods List in chapter 3.2 as follows (new text is underlined>):

UN No.	Name and description	Class or division	Subsidiary hazard	UN packing group	Special provisions	Limited and excepted quantities		Packagings and IBCs		Portable tanks and bulk containers	
						(7a)	(7b)	Packing instruction	Special packing provisions	Instructions	Special provisions
(1)	(2)	(3)	(4)	(5)	(6)	(7a)	(7b)	(8)	(9)	(10)	(11)
2857	REFRIGERATING MACHINES or <u>HEATING MACHINES</u> containing non-flammable, non-toxic, gases or ammonia solutions (UN 2672)	2.2			119	0	E0	P003	PP32		
3358	REFRIGERATING MACHINES or <u>HEATING MACHINES</u> containing flammable, non-toxic, liquefied gas	2.1			291	0	E0	P003	PP32		

5. Amend special provisions 119 and 291 in chapter 3.3 as follows (deleted text is ~~stricken through~~, new text is underlined):

“119 Refrigerating machines include machines or other appliances which have been designed for the specific purpose of keeping food or other items at a low temperature in an internal compartment, and air conditioning units. Heating machines include machines or other appliances which have been designed for the specific purpose of heating. Refrigerating or heating machines and ~~refrigerating machine~~ their components are not subject to these Regulations if they contain less than 12 kg of gas in Division 2.2 or less than 12 litres ammonia solution (UN 2672). Machines or other appliances that are used to perform heating and cooling functions may be transported either under REFRIGERATING MACHINES or HEATING MACHINES.”

“291 Flammable liquefied gases shall be contained within refrigerating or heating machine components. These components shall be designed and tested to at least three times the working pressure of the machinery. ~~The refrigerating or heating machines~~ shall be designed and constructed to contain the liquefied gas and preclude the risk of bursting or cracking of the pressure retaining components during normal conditions of transport. Refrigerating or heating machines and ~~refrigerating machine~~ their components are considered not subject to these Regulations if they contain less than 12 kg of gas. Machines that are used to perform heating and cooling functions may be transported either under REFRIGERATING MACHINES or HEATING MACHINES.”

6. Add the following new entries to the alphabetical index of substances and articles:

Heat pumps, see	2.2	2857
	2.1	3358
HEATING MACHINES containing non-flammable, non-toxic, gases or ammonia solutions (UN 2672)	2.2	2857
HEATING MACHINES containing flammable, non-toxic, liquefied gas	2.1	3358