

Guideline for hazardous goods transport



Hazardous goods safely transported to destination

Gültig ab 01.06.2018

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1. Introduction

This guideline governing the transport of hazardous goods is mandatory for those transporting hazardous goods with SBB Cargo International and supplements the company's General Terms and Conditions.

2. Scope and conditions

Principle:

The present guideline applies to customers as well as loaders, unloaders or trans shippers on the European rail network (see "RID - Règlement concernant le transport international ferroviaire des marchandises dangereuses"). Inside Switzerland additionally there is valid by federal transport law (UVEK) the regulation RSD (Verordnung über die Beförderung gefährlicher Güter mit der Eisenbahn und mit Seilbahnen).

Commercial issues:

Hazardous goods are accepted or transferred only when proper documentation exists between the parties. Senders and receivers of hazardous goods are obliged to observe the safety and duty of care obligations. For the transport itself, pickup or disposition must be agreed.

When signing the commercial contract with SBB Cargo International clients must name their responsible person for RID-topics (internal or mandate of an external company).

Responsible person for RID at SBB Cargo International:

Roland Dürig / roland.duerig@sbbcargoint.com / safety@sbbcargoint.com

Safety obligation

Valid are the safety obligation according **RID 1.4 for all participants of the transport chain**. The specific responsibilities are clearly explained.

The present guidelines are valid for the client, loader, unloader or filler of transports on the European railway networks.

According to RID 1.4.2.2. SBB Cargo International is a carrier, which means only responsible for the transport of RID-goods on rail.

SBB Cargo International is not responsible for the production, loading, unloading, reloading, filling or emptying of RID-goods.

Acceptance of RID-goods:

According to **RID 1.4.2.2.1** SBB Cargo International operates strict controls when take-over the RID-goods from the client. **RID goods which do not correspond to the rules of RID will be refused from a transport.**

3. Excluded hazardous goods

SBB Cargo International will not accept the following UN-Numbers for any transports:

UN-Number	Class	Type	Remarks
0020	1	Explosives	Classification code 1.2 K
0021	1	Explosives	Classification code 1.3 K
0074, 0113, 0114, 0129, 0130, 0135, 0224, 0473	1	Explosives	Classification code 1.1 A
1017	2	Gases	Holland: Prohibited Germany, Switzerland Italy: only on request
2186, 2421, 2455	2	Gases	
3097, 3231, 3232, 3233, 3234, 3235, 3236, 3237, 3238, 3239, 3240, 3533, 3534	4.1	Flammable solids	
3127, 3255	4.2	Spontaneously combustibles	
3133	4.3	Dangerous when wet	
3100, 3121, 3137	5.1	Oxidizers	
3111, 3112, 3113, 3114, 3115, 3116, 3117, 3118, 3119, 3120	5.2	Organic peroxides	
2249	6.1	Poison	
All UN-Numbers	7	Radioactive	SBBCINT does not transport any RID-goods of class 7
1798	8	Corrosive	

Request for RID-goods by clients:

Requests from clients have **mandatorily always to contain the relative UN-number according RID 3.2.**

Note: If a UN-number contains several different positions, so announce the exact position.

Example UN 1989

1989	ALDEHYDE, N.A.G.	3	F1	I	3	274	0	E3	P001		MP7 MP17	T11	TP1 TP27	L4BN		1						33	
1989	ALDEHYDE, N.A.G. (Dampfdruck bei 50 °C größer als 110 kPa)	3	F1	II	3	274 640C	1	L	E2	P001		MP19	T7	TP1 TP8 TP28	L1,5BN		2					CE7	33
1989	ALDEHYDE, N.A.G. (Dampfdruck bei 50 °C höchstens 110 kPa)	3	F1	II	3	274 640D	1	L	E2	P001 IBC02 R001		MP19	T7	TP1 TP8 TP28	LGBF		2					CE7	33
1989	ALDEHYDE, N.A.G.	3	F1	III	3	274	5	L	E1	P001 IBC03 LP01 R001		MP19	T4	TP1 TP29	LGBF		3	W12				CE4	30

>>> Important: Safety data sheets will not be accepted as a transport document <<<

4. General information required in the transport document

Data regarding hazardous materials must be made available to SBB Cargo International prior to train departure. A timely handover of data enables SBB Cargo International to register the data in electronic form and to carry out physical exit controls before train departure.

The information on hazardous goods must be in compliance with regulations found in RID 5.4.1.1. It is in the responsibility of the client to transfer (transport document and electronic data transfer) all relevant RID data according to RID 5.4.1.1.

Information on hazardous goods on full transports:

Example:

663, UN 1098 ALLYLALKOHOL, 6.1 (3), VG I, 3 x barrel, 600 kg

RID 5.4.1.1.1. j	Hazardous identification number (When a marking in accordance with 5.3.2.1 is prescribed, the hazard identification number shall also be inscribed before the UN-number. The hazardous identification number shall also be shown where full loads made up of packages containing one and the same substance are marked in accordance with 5.3.2.1)
RID 5.4.1.1.1. a	The UN-Number preceded by the letters «UN»
RID 5.4.1.1.1. b	Proper shipping name supplemented, when applicable (see 3.1.2.8.1) with the technical name in brackets (see 3.1.2.8.1.1.), as determined in accordance with 3.1.2.
RID 5.4.1.1.1. c	Label model numbers as well as label “environmentally hazardous”
RID 5.4.1.1.1. d	Packing Group
RID 5.4.1.1.1. e	Number and description of the packages
RID 5.4.1.1.1. f	Total quantity of each type of dangerous goods bearing a different UN number, proper shipping name or packing group (as a volume or as a gross mass, or as a net mass as appropriate)
RID 5.4.1.2.1	Additional or special information required for class 1 (explosives) - The total net mass, in kg, of explosive contents for each substance or article bearing a different UN number - The total net mass, in kg, of explosive contents for all substances and articles covered by the transport document.
RID 5.4.1.1.1. g	Name and address of the consignor
RID 5.4.1.1.1. h	Name and address of the consignee
RID 5.4.1.1.1. i	Declaration as required by the terms of any special agreement
RID 5.4.1.1.1. k	Location and order in which the elements of information required appear in the transport document

Additional or special information required:

RID 5.4.1.2.1 g	Special provisions for class 1 (explosives) When fireworks of UN 0333 / UN 0334 / UN 0335 / UN 0336 and UN 0337 are carried, the transport document shall bear the inscription: CLASSIFICATION OF FIREWORKS BY THE COMPETENT AUTHORITY OF XX WITH THE FIREWORK REFERENCE XX/YY ZZZZ
RID 5.4.1.2.2 d	Additional provisions for Class 2 (gas) In the case of tank-wagons and tank-containers carrying refrigerated liquefied gases the consignor shall enter in the transport document the date at which the actual holding time ends, in the following format: END OF HOLDING TIME = (DD/MM/YYYY)
RID 5.4.1.1.7	Special provisions for carriage in a transport chain including maritime or air carriage Statement in transport document: CARRIAGE IN ACCORDANCE WITH 1.1.4.2.1.
RID 5.4.1.1.9	Special provisions for piggyback transport 1.1.4.4.5 Statement in transport document: CARRIAGE IN ACCORDANCE 1.1.4.4.

Special provisions for empty means of containment, uncleaned (RID 5.4.1.1.6):

Example:

EMPTY TANK-WAGON, LAST LOAD: 663 UN 1098 ALLYL ALCOHOL, 6.1 (3), PG I

*For empty means of containment other than packagings, uncleaned, which contain the residue of dangerous goods of classes than Class 7, and for empty uncleaned receptacles for gases with a capacity of more than 1000 litres, the particulars according to 5.1.1.1. (a) to (d) and (j) **are preceded** by “EMPTY TANK-WAGON, EMPTY TANK-VEHICLE, EMPTY DEMOUNTABLE TANK, EMPTY PORTABLE TANK, EMPTY TANK-CONTAINER, EMPTY WAGON, as appropriate, followed by the words “LAST LOAD”. Moreover, paragraph 5.4.1.1.1 (f) does not apply.*

- Official denomination of transport unit
- Notation „LAST LOAD»
- Hazard identification number
- UN-Number
- Official name and description similarly as with full transport
- Danger label model and markings (f. ex. „Environmentally hazardous substance“)
- Packaging group, when appropriate

Special provisions for carriage of environmentally hazardous substances (RID 5.4.1.1.18)

With the inception of ADR/RID 2011, (5.4.1.1.18) senders are obliged, to control environmental risks and to mark the affected shipments with the appropriate symbols for environmentally hazardous materials (the dead fish and dead tree).



The notation „ENVIRONMENTALLY HAZARDOUS” is mandatory in the transport document.

For the electronic transmission of hazardous goods data, an appropriate data field answering the question, «environmentally hazardous materials yes / no» is a minimum requirement.

Format and language to be used (RID 5.4.1.4.1)

The transport document shall be filled out in one or more languages, one of which shall be **English, French or German**, unless any agreements concluded between the countries concerned in the transport operation provide otherwise.

Additional warning symbol for packages containing a coolant or conditioner (ADR/RID 5.5.3)

Hazardous materials used for the purpose of cooling other non-hazardous goods (for example dry ice, refrigerated nitrogen) are transported in accordance with ADR/RID 5.5.3.

The sender must indicate the following information in the transport document:

- The UN number preceded by the letters „UN“
- Designation of the material as described in ADR/RID chapter 3.2 table A column 2, followed by the expression „AS COOLANT“ or „AS CONDITIONER“ in an official language of the country of origin.



Markings on wagons and containers

A warning symbol in accordance with subsection 5.5.3.6.2 of ADR/RID is to be displayed at every access point of the wagon or container showing which hazardous material requiring cooling or conditioning is contained.

The warning label must communicate the following information:

- a) The term „WARNING“ („WARNUNG“ in German) in red or white letters with a letter height of at least 25 mm
- b) Below the star symbol * described in the ADR/RID regulation chapter 3.2 table A column 2 should follow the words «AS COOLANT» («ALS KÜHLMITTEL») or «AS CONDITIONER» («ALS KONDITIONIERUNGSMITTEL»), in black letters against a white background with a letter height of at least 25 mm.
- c) Example: UN 1845 CARBON DIOXIDE, SOLID, **AS CONDITIONER**

5. Loading and cargo handling

Rail cars and transport units are made available in a technically sound condition. External surfaces of transport units must be free of all residue from hazardous substances. Closures are to be checked and secured for leaks and damages. When possible a seal should be used.












The hauled goods must satisfy the specific stress requirements customary to rail transport (up to 4 G).

Packages and unpacked hazardous materials must be secured adequately (for example, tie-down straps, sliding slat boards, adjustable brackets) to avoid movements which could damage the hauled goods.







The rules for loading and unloading and manipulation must be observed, particularly the RID section 7.5.2 "Mixed loading prohibitions" and section 7.5.3 „Protective distance“.

6. Placarding and marking of transport units

Table of placarding/markings of transport units and railway wagons according to RID 5.3.1

Kennzeichnung	 UN Tafel	 Grosszettel / Placards	
Transporteinheit	An beiden Längsseiten min. Grösse 30 x 40 cm	Beiden Längsseiten	Beiden Stirnseiten
Kesselwagen 	X	mind. 25 x 25 cm	
Gaswagen 	X	mind. 25 x 25 cm	
Geschlossene Wagen 		mind. 25 x 25 cm	
Offene Wagen / Silo Wagen Ladegut in loser Schüttung 	X	mind. 25 x 25 cm	
Sattel Auflieger / Huckepack 	Nach RID 1.1.4.4 (ADR) nur neutrale UN-Tafel an beiden Stirnseiten	Wagen und Auflieger mind. 25 x 25	
Tankcontainer 	X	mind. 25 x 25 cm	25 x 25 cm
Grosscontainer 		mind. 25 x 25 cm	25 x 25 cm
Wechselaufbau 		mind. 25 x 25 cm	25 x 25 cm
Mulden / Container / ACTS Ladegut in loser Schüttung 	X	mind. 25 x 25 cm	25 x 25 cm

Placarding and marking IMDG / Maritime carriage RID 1.1.4.2.1

Kennzeichnung	UN – Nummer ¹	Grosszettel/Placards
UN-Tafel <u>oder</u> Placards mit integrierter Stoffnummer <u>oder</u> auch alle beide sind möglich	 30 x 12 cm oder  25x 25 cm	  25 x 25 cm
Transporteinheit	An beiden Längs- und Stirnseiten	An beiden Längs- und Stirnseiten
Tankcontainer 	X	mind. 25 x 25 cm
Grosscontainer 	X*	mind. 25 x 25 cm

7. Particular rules for transports with Italy

7.1 Transport of Class 1 hazardous goods (Explosives)

Special rules apply to the transport of Class 1 hazardous goods to Italy in accompanied and unaccompanied (“rolling highway”) intermodal transport.

- The sender is obliged to inform the control centre of SBB Cargo Italia in Gallarate **at least 72 hours** prior to transport.
 Contact of SBB Cargo Italia
 - esplosivi.italia@sbbcargoint.com;
 - soitalia@sbbcargoint.com
 - safety@sbbcargoint.com

- The bill of lading for all hazardous goods for transport must be transmitted to the control centre of SBB Cargo Italia in Gallarate

- Senders of goods must provide the following transport data to the control centre of SBB Cargo Italia in Gallarate:
 - Train number
 - Booking date of the transport
 - Date of planned train departure
 - Information on the party dispatching the goods / customer (name, address)
 - Identification (license plate) of road vehicle
 - Description of the transported hazardous goods
 - UN registration number of hazardous goods
 - Gross weight of the hazardous goods
 - Net mass in kg of the explosive substance
 - Information about the receiver of the hazardous good (name, address)
 - Final destination of the hazardous goods

- For the accompanied intermodal combined transport (“rolling highway”) the ADR regulations for road transport apply. In the “Regulations concerning the International Carriage of Dangerous Goods by Rail” (RID) the “piggy-back transport” is described in subsection 1.1.4.4.

8. Waste transports

SBB Cargo International is authorized to perform waste transports by international authorities.

For each client there are the following valid and obligatory rules:

- Prior to a planned transport every single CER-Code (classification of waste) must be requested for feasibility at: safety@sbbcargoint.com
- Notification: Every notification for dangerous waste transports (CER-Codes with *) authorized by the authorities must be complete and sent to safety@sbbcargoint.com in PDF for approval.
- The feasibility of a transport of waste will be communicated to the client.
- Operative: Each waste transport must be announced by E-Mail mandatorily at least 48h prior to departure to safety@sbbcargoint.com. All relevant E-Mail addresses will be communicated to the client.
- The accuracy of the content on the waste transport document is at the customer's fully responsibility.
- The original waste transport documents (Annexe VII or Part 1B) must accompany the transport unit on the train.
- Notation "waste" must be between the UN-number and name/description,
- In international traffic, the number of waste transport documents (conveyance number) and the number of the notifications are required.