



DEAS 952-4 :2019

ICS 13.300

DRAFT EAST AFRICAN STANDARD

Transport of dangerous goods — Emergency information systems Part
4: Transport emergency card

EAST AFRICAN COMMUNITY

Copyright notice

This EAC document is copyright-protected by EAC. While the reproduction of this document by participants in the EAC standards development process is permitted without prior permission from EAC, neither this document nor any extract from it may be reproduced, stored or transmitted in any form for any other purpose without prior written permission from EAC.

Requests for permission to reproduce this document for the purpose of selling it should be addressed as shown below or to EAC's member body in the country of the requester:

© East African Community 2018 — All rights reserved
East African Community
P.O. Box 1096,
Arusha
Tanzania
Tel: + 255 27 2162100
Fax: + 255 27 2162190
E-mail: eac@eachq.org
Web: www.eac-quality.net

Reproduction for sales purposes may be subject to royalty payments or a licensing agreement. Violators may be prosecuted.

Copy for public comments

Foreword

Development of the East African Standards has been necessitated by the need for harmonizing requirements governing quality of products and services in the East African Community. It is envisaged that through harmonized standardization, trade barriers that are encountered when goods and services are exchanged within the Community will be removed.

The Community has established an East African Standards Committee (EASC) mandated to develop and issue East African Standards (EAS). The Committee is composed of representatives of the National Standards Bodies in Partner States, together with the representatives from the public and private sector organizations in the community.

East African Standards are developed through Technical Committees that are representative of key stakeholders including government, academia, consumer groups, private sector and other interested parties. Draft East African Standards are circulated to stakeholders through the National Standards Bodies in the Partner States. The comments received are discussed and incorporated before finalization of standards, in accordance with the Principles and procedures for development of East African Standards.

East African Standards are subject to review, to keep pace with technological advances. Users of the East African Standards are therefore expected to ensure that they always have the latest versions of the standards they are implementing.

The committee responsible for this document is Technical Committee EASC/TC

Attention is drawn to the possibility that some of the elements of this document may be subject of patent rights. EAC shall not be held responsible for identifying any or all such patent rights.

During the preparation of this Standard, reference was made to the following document:

SANS 10232-4 Transport of dangerous goods -Emergency information systems Part 4: Transport emergency card .

Acknowledgement is hereby made for the assistance derived from this source.

Transport of dangerous goods — Emergency information systems Part 4: Transport emergency card.

1 Scope

This draft East African standard specifies the requirements for a transport emergency card (TREC) to enable the driver of a vehicle transporting dangerous goods by road and the first responders aware of the dangers associated with the load, and to indicate its use as a concise and quick reference in an emergency situation.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ANSI Z400.1, *Hazardous workplace chemicals – Hazard evaluation and safety data sheets and precautionary labeling preparation*

ISO 3864, *Graphical symbols — Safety colours and safety signs — Part 1: Design principles for safety signs and safety markings*

DEAS 949:2019 *The identification and classification of dangerous goods for road and rail transport*

DEAS 952-1:2019, *Transport of dangerous goods – Emergency information systems – Part 1: Emergency information system for road transport*

SANS 10232-3, *Transport of dangerous goods – Emergency information systems – Part 3: Emergency response guides*

ISO 11014, *Safety data sheet for chemical products -- Content and order of sections*

Copy for public comments

3 Definitions and abbreviations

For the purposes of document, the following definitions and abbreviations apply.

3.1 Definitions

3.1.1

dangerous goods

substances or articles that pose hazard to people, health, property or the environment, due to their chemical or physical properties

3.1.2

dangerous goods placard

single placard with separate, delineated zones for goods identification, telephonic advice numbers and the appropriate hazard class

3.1.3

transport emergency card(TREC)

card that lists the hazards and emergency information for a dangerous substance being transported, and that is intended for use by the driver during an incident, or by the emergency services, if required. The transport emergency card can either be generated from the European Council of Chemical Manufacturers' Federation (CEFIC) system, called a TREMCARD, or in accordance with, Transport of dangerous goods – Emergency information systems – Part 4: Transport emergency card called a TREC

3.2 Abbreviations

3.2.1 AFFF: aqueous film forming foam

3.2.2 ERG: emergency response guide

3.2.3 TREC: transport emergency card

3.2.4 UN No.: United Nations number

3.2.5 SDS: safety data sheet

3.2.6 GHS Globally Harmonised systems of classification and labelling of chemicals

NOTE In the industry the SDS is sometimes referred to as MSDS (material safety data sheet).

3.3 Requirements for the format

3.4 General

The TREC document shall be prepared in a standardized format in conjunction with an SDS that complies with ISO 11014 or the globalised harmonised system of classification of chemicals(GHS)

3.5 Size and borders

The TREC document shall consist of a single A4 size sheet of white paper with information printed on one side only.

The information shall be entered in Arial font, in the following minimum font sizes: headings 14 pt bold, subheadings 10 pt bold and contents 10 pt regular.

The sheet shall have a left and a right border, of which the length shall at least frame the text. The length of the red lines shall be the length of the printable page and extend to within 20 mm or less from the top and bottom edges of the A4 page.

Copy for public comments

3.6 Layout

The layout of the TREC shall conform to the format shown in annex A.

The main headings and lines, from top to bottom, shall be as follows (see annex A):

- a) proper shipping name;
- b) appearance;
- c) danger;
- d) personal protective equipment;
- e) emergency response equipment;
- f) a solid black line;
- g) driver first actions;
- h) driver special/additional actions;
- i) driver actions in case of fire;
- j) a solid black line;
- k) first aid;
- l) a solid black line;
- m) special information for emergency services;
- n) a solid black line;
- o) additional information;
- p) emergency telephone numbers; and
- q) prepared by.

The title: "TRANSPORT EMERGENCY CARD – Road transport" shall appear in the top left hand corner, with the words "In accordance with" directly underneath. The dangerous goods references consisting of the UN No., the class, the subsidiary risk, the packing group and the ERG number shall appear in the top right-hand corner. The date (month and year) that the TREC was prepared, and the issuer's own reference or serial number (if any), shall appear in the bottom right-hand corner.

4 Requirements for information provided

NOTE The information under the relevant section of the SDS may be used to select the appropriate phrases

4.1 General

4.1.1 The information for the TREC that is provided under the headings (see 4.3) shall comply with the requirements of 5.2 to 5.13, inclusive.

NOTE Emergency information for the first responders and the emergency services is provided for in ERG 2016 . Where no other information is available the emergency services may also make use of the TREC in an emergency situation.

4.1.2 The TREC is intended for the use of the driver, and every effort shall be made to present the information in a clear and concise manner.

NOTE The driver should be made aware of the danger associated with the load before the start of the journey by means of the information on the TREC.

4.1.3 In order to ensure that the potential risk of the load and the emergency provisions to be taken in the event of an accident or leakage are adequately communicated, the TREC shall be available to all other persons who might come into contact with the dangerous goods in the course of transport.

4.1.4 The TREC shall, at the time of transportation of the goods, be based on the current properties, classification, and MSDS information of the goods that are being transported. The proper shipping name

Only the proper shipping name in accordance with DEAS 949:2019 shall appear under this heading (see note). Wording shall be printed in capital letters.

NOTE Any trade name, or technical name for the product may be entered under ADDITIONAL INFORMATION (see 5.11 and annex A) if this information is deemed necessary.

4.2 Appearance

One or two phrases shall be inserted under this heading to assist in the identification of the dangerous goods in the case of a spill. Examples of appropriate phrases are

- a) clear colourless liquid with ammonia Cal odour, or
- b) white granular powder.

4.3 Danger

Only the H phrases in table B.1 (see annex B) associated with the class of the goods covered by the TREC shall be used under DANGER (see annex A). The person preparing the TREC shall select the most appropriate H phrases applicable to the dangerous goods.

There shall be at least one phrase. Several phrases may be necessary to adequately describe the nature of the danger but too many phrases might affect the ease of assimilation of the information.

NOTE In most cases a maximum of five phrases might be adequate.

4.4 Protective equipment

4.4.1 Personal protective equipment

Only the PP phrases in table C.1 (see annex C) associated with the class of dangerous goods covered by the TREC shall be used under PERSONAL PROTECTIVE EQUIPMENT (see annex A). The equipment might not necessarily be on board. Where it is deemed necessary to carry the protective equipment in the vehicle, the appropriate phrase shall be followed by the words "on board".

4.4.2 Emergency response equipment

Only the ER phrases in table C.2 (see annex C) associated with the class of dangerous goods covered by the TREC shall be used under EMERGENCY RESPONSE EQUIPMENT (see annex A). The equipment might not necessarily be on board. Where it is deemed necessary to carry the emergency equipment in the vehicle, the appropriate phrase shall be followed by the words "on board".

4.5 Driver first actions

Only the D phrases in table D.1 (see annex D) shall be used under DRIVER FIRST ACTIONS (see annex A). Phrases D1, D5 and D8 shall always be a requirement, and any others that are applicable.

4.6 Driver special/additional actions

Only the S phrases in table D.2 (see annex D) shall be used under DRIVER SPECIAL/ ADDITIONAL ACTIONS (see annex A).

4.7 Driver actions in case of fire

Only the F phrases in table D.3 (see annex D) shall be used under DRIVER ACTIONS IN CASE OF FIRE (see annex A). If a fire extinguisher is used (see F2 in table D.3), only drivers trained in fire-fighting using the appropriate equipment shall be employed.

4.8 First aid

Only the A phrases in table E.1 (see annex E) shall be used under FIRST AID (see annex A).

NOTE The emergency services would normally have much more detailed first-aid information and facilities. The intention here is not to provide a large amount of information but to draw attention to any special procedures or precautions that might be necessary.

4.9 Special information for emergency services

Only the E phrases in table F.1 (see annex F) shall be used under SPECIAL INFORMATION FOR EMERGENCY SERVICES (see annex A).

NOTE The emergency services would normally have much more detailed information and facilities. The intention here is not to provide a large amount of information but to draw attention to any special procedures or precautions that might be necessary.

4.10 Additional information

Typical information included under ADDITIONAL INFORMATION (see annex A) would be;

- a) supplier's/organization's name,
- b) the trade and technical names of the product,
- c) any special information not adequately covered by the available phrases under the various headings, and
- d) pictograms in accordance with DEAS 952-1:2019 if deemed necessary.

The date shall not exceed a period of three years prior to the date of transport. If preferred, this period could even be shortened to one year without much inconvenience.

4.11 Emergency telephone numbers

The placard DEAS 952-1:2019 makes provision for telephone numbers for the operator and emergency information. If a number is used under EMERGENCY TELEPHONE NUMBERS (see annex A) it shall be that of designated national authority in the partner States where more detailed technical information on the specific dangerous goods could be obtained.

4.12 Prepared by

Either the name of the person, or the organization, or both, responsible for the preparation and accuracy of the TREC's contents shall be entered under PREPARED BY (see annex A) in the appropriate space.

The person preparing the card shall be trained and knowledgeable on transportation of dangerous goods.

5 Requirements for revision

The TREC shall be revised every three years from the preparation date, which is on the bottom right hand corner of the card.

Copy for public comments

Annex A

(normative)

Transport emergency card layout

A.1 The layout of the transport emergency card may be presented either by using the format given in A.3 (two column format)

A.2 TRANSPORT EMERGENCY CARD – In accordance with DEAS 952-4:2019

UN No.	
Class	
Subsidiary risk	
Packing group	
ERG No.	

PROPER SHIPPING NAME

.....

APPEARANCE

.....

POTENTIAL HAZARD (DANGER)

.....

PERSONAL PROTECTIVE EQUIPMENT

..... (PP phrases)

EMERGENCY RESPONSE EQUIPMENT

..... (ER phrases)

DRIVER FIRST ACTIONS – Only if it can be carried out without personal risk

..... (D phrases)

.....

DRIVER SPECIAL/ADDITIONAL ACTIONS – Only if it can be carried out without personal risk

..... (S phrases)

.....

DRIVER ACTIONS IN CASE OF FIRE – Only if it can be carried out without personal risk

.....

FIRST AID

.....

.....

.....

SPECIAL INFORMATION FOR EMERGENCY SERVICES

.....
.....
.....

ADDITIONAL INFORMATION

EMERGENCY TELEPHONE NUMBERS

PREPARED BY:M/Y**EXPIRY DATE**.....Reference... from the best knowledge currently available; no guarantee is provided that the information is sufficient or correct under all circumstances.

Copy for public comments

A.3 TRANSPORT EMERGENCY CARD

– In accordance with DEAS 952-4:2019

UN No.	
Class	
Subsidiary risk	
Packing group	
ERG No.	

PROPER SHIPPING NAME

.....

POTENTIAL HAZARD

.....

APPEARANCE

(DANGER)

.....

PERSONAL PROTECTIVE EQUIPMENT

DRIVER INTERVENTION

EQUIPMENT

.....

.....

(PP phrases)

(ER phrases)

DRIVER FIRST ACTIONS

– Only if it can be carried out without personal risk **DRIVER SPECIAL/ADDITIONAL ACTIONS** – Only if it can be carried out without personal risk

..... (D phrases)

DRIVER ACTIONS IN CASE OF FIRE –

Only if it can be carried out without personal risk

.....

FIRST AID

SPECIAL INFORMATION FOR EMERGENCY SERVICES

.....
.....
.....

ADDITIONAL INFORMATION

EMERGENCY TELEPHONE NUMBERS

PREPARED BY: from the best knowledge currently available; no guarantee is provided that the information is sufficient or correct under all circumstances.

Copy for public comments

Copy for public comments

Annex C

(normative)

Protective equipment phrases (PP and ER phrases)

C.1 General

Table C.1 lists the phrases in column 2 that are allowed under PERSONAL PROTECTIVE EQUIPMENT and table C.2 lists the phrases in column 2 that are allowed under EMERGENCY RESPONSE EQUIPMENT in the transport emergency card. The reference number in column 1 may be used in systems where a TREC is generated by computer systems. The PP (see table C.1) in the reference indicates that it applies to the PERSONAL PROTECTIVE EQUIPMENT section and the ER (see table C.2) indicates that it applies to the EMERGENCY RESPONSE EQUIPMENT section of the transport emergency card and the third digit indicates the sequence number.

C.2 Personal protective equipment phrases

Table C.1 — Personal protective equipment phrases (all classes)

1	2
Ref.	Personal protective equipment phrase
PP1	Protective goggles or face shield
PP2	Protective gloves
PP3	Protective shoes
PP4	Eyewash bottle with clean water
PP5	Respiratory safety device that will allow driver to escape
PP6	Light protective clothing

C.3 Emergency response equipment phrases

Table C.2 — Emergency response equipment phrases (all classes)

1	2
Ref.	Emergency response equipment phrase
ER1	Broom
ER2	Chemical protective clothing that is specially recommended by the manufacturer
ER3	Dry chemical or CO ₂
ER4	Dry chemical or CO ₂ , or water spray
ER5	Dry chemical, CO ₂ , sand, earth, water spray or regular foam
ER6	Dry chemical, CO ₂ , dry sand, or alcohol-resistant foam
ER7	Dry chemical, CO ₂ , or water spray or alcohol-resistant foam
ER8	Dry chemical, CO ₂ , or water spray or regular foam
ER9	Dry chemical, dry sand or alcohol-resistant foam
ER10	Dry chemical, soda ash or lime
ER11	Dry chemical, soda ash, lime or DRY sand
ER12	Dry chemical, soda ash, lime or sand
ER13	Positive pressure self-contained breathing apparatus (SCBA) and structural fire-fighters protective clothing
C2	
ER14	Positive pressure self-contained breathing apparatus (SCBA)
ER15	Sand or other absorbent

ER16	Shovel
ER17	Thermal protective clothing when handling refrigerated/cryogenic liquids or solids
ER18	Use extinguishing agent suitable for surrounding fire

Copy for public comments

Annex D

(normative)

Phrases for driver actions (D, S and F phrases)

D.1 Phrases for driver first actions

Table D.1 lists the phrases in column 2 that are allowed under DRIVER FIRST ACTIONS in the Transport emergency card. The reference number in column 1 may be used in systems where a transport emergency card is generated by computer systems. The D in the reference indicates that it applies to the DRIVER FIRST ACTIONS section of the transport emergency card and the second digit indicates the sequence number.

Table D.1 — Phrases for driver first actions (all classes)

1	2
Ref.	Phrase for driver first actions
D1	Contact the emergency services
D2	Keep upwind
D3	No smoking allowed

Copy for public comments