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

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

held in Geneva on 7 December 2018

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\* For practical reasons, this annex has been published as an addendum with the symbol ST/SG/AC.10/46/Add.1.

\*\* For practical reasons, this annex has been published as an addendum with the symbol ST/SG/AC.10/46/Add.2.

\*\*\* For practical reasons, this annex has been published as an addendum with the symbol ST/SG/AC.10/46/Add.3.

## Report

### I. Attendance

1. The Committee of Experts on the Transport of Dangerous Goods and on the Globally Harmonized System of Classification and Labelling of Chemicals held its ninth session in Geneva on 7 December 2018.
2. Experts from the following countries took part in the session: Australia, Austria, Brazil, Canada, China, France, Germany, Italy, Japan, Netherlands, Republic of Korea, Sweden, Switzerland, United Kingdom and United States of America.
3. The European Union was represented.
4. Representatives of the following non-governmental organizations were also present: Australian Explosives Industry and Safety Group Incorporated (AEISG), European Chemical Industry Council (CEFIC); Institute of Markers of Explosives (IME) and the Rechargeable Battery Association (PRBA).

### II. Adoption of the agenda (agenda item 1)

*Document:* ST/SG/AC.10/45 (Secretariat)

5. The Committee adopted the provisional agenda prepared by the secretariat.

### III. Election of officers (agenda item 2)

6. Mr. D. Pfund (United States of America) and Ms. M. Ruskin (United States of America) were elected President and Vice-President respectively.

### IV. Resolutions and decisions of the Economic and Social Council (agenda item 3)

7. The Committee noted that the resolution prepared by the Committee at its eighth session had been adopted without changes by the Economic and Social Council on 8 June 2017 (E/RES/2017/13). It was also noted that since no application for membership in the Committee or any of its sub-committees was received during the biennium 2017-2018, it remains as follows and as detailed in the explanatory notes to the agenda:

- Committee of Experts: 40 members;
- Sub-Committee of Experts on the Transport of Dangerous Goods: 30 members;
- Sub-Committee of Experts on the Globally Harmonized System of Classification and Labelling of Chemicals: 36 members.

8. The Committee noted with satisfaction that the secretariat had published the twentieth revised edition of the Recommendations on the Transport of Dangerous Goods, Model Regulations (ST/SG/AC.10/1/Rev.20), amendment 1 to the sixth revised edition of the Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria (ST/SG/AC.10/11/Rev.6/Amend.1) and the seventh revised edition of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) (ST/SG/AC.10/30/Rev.7) in all official languages of the United Nations.

9. It was also noted that the three publications were also available in electronic format:
- (a) On the website of the Transport Division of the United Nations Economic Commission for Europe ([www.unece.org/trans/danger/danger.htm](http://www.unece.org/trans/danger/danger.htm)); and
  - (b) Separately in pdf format, as sales publications.

## **V. Work of the Sub-Committee of Experts on the Transport of Dangerous Goods during the biennium 2017-2018 (agenda item 4)**

*Documents:* ST/SG/AC.10/C.3/102 and Add.1  
ST/SG/AC.10/C.3/104 and Add.1  
ST/SG/AC.10/C.3/106 and Add.1  
ST/SG/AC.10/C.3/2018/CRP.3 and Add.1 to 11  
ST/SG/AC.10/C.3/2018/CRP.4 and Add.1 to 4

10. The Committee took note of the reports of the Sub-Committee of Experts on the Transport of Dangerous Goods (TDG Sub-Committee) on its fifty-first, fifty-second and fifty-third sessions. The Committee noted also that the Sub-Committee had adopted the report on its fifty-fourth session (26 November – 4 December 2018) on the basis of a draft prepared by the secretariat (ST/SG/AC.10/C.3/2018/CRP.3 and Add.1 to 11 and -/CRP.4 and Add. 1 to 4) with some slight modifications. For the final report see document ST/SG/AC.10/C.3/108 and Add.1.

11. The Committee endorsed the reports of the Sub-Committee, including the amendments to the existing recommendations on the transport of dangerous goods and the new recommendations made (see annexes I and II).

## **VI. Work of the Sub-Committee of Experts on the Globally Harmonized System of Classification and Labelling of Chemicals during the biennium 2017-2018 (agenda item 5)**

*Documents:* ST/SG/AC.10/C.4/66  
ST/SG/AC.10/C.4/68  
ST/SG/AC.10/C.4/70  
ST/SG/AC.10/C.4/2018/CRP.3 and Add.1 to 3  
ST/SG/AC.10/C.4/2018/CRP.4 and Add.1

12. The Committee took note of the reports of the Sub-Committee of Experts on the Globally Harmonized System of Classification and Labelling of Chemicals (GHS Sub-Committee) on its thirty-third, thirty-fourth and thirty-fifth sessions. The Committee noted also that the Sub-Committee had adopted the report on its thirty-sixth session (5–7 December 2018) based on a draft prepared by the secretariat (ST/SG/AC.10/C.4/2018/CRP.3 and Add. 1 to 3 and -/CRP.4 and Add.1) with some minor changes. For the final report see document ST/SG/AC.10/C.4/72.

13. The Committee endorsed the reports of the Sub-Committee, including the amendments to the existing text of the GHS and the new provisions adopted (see annex III).

## VII. Programme of work for the biennium 2019-2020 (agenda item 6)

### (a) Programme of work

*Informal document:* INF.1 (secretariat)

14. The Committee approved the programme of work of the two sub-committees as reflected in ST/SG/AC.10/C.3/108, paragraph 141 and ST/SG/AC.10/C.4/72, annex II.

### (b) Calendar of meetings

15. At its seventh session, the Committee agreed to give the opportunity to the TDG and GHS sub-committees to meet jointly to avoid duplication of discussions and facilitate exchange of knowledge and expertise on matters of common interest<sup>1</sup>. Since then, the sub-committees held three joint sessions (9 December 2015<sup>2</sup>, 5 July 2016<sup>3</sup> and 3 July 2018<sup>4</sup>).

16. Considering that the joint sessions had proven to be successful for enhancing cooperation between the two sub-committees and addressing matters of common interest, the Committee decided that joint sessions of both sub-committees may continue to be convened at the second and third sessions of each biennium. The time allocated to the joint sessions would be determined by the chairpersons of both sub-committees and the secretariat based on the number of issues to be considered. This would not entail any additional conference costs since it would not affect the global number of meetings allocated.

17. Informed by the secretariat about the availability of conference facilities, the Committee agreed that the schedule of meetings for 2019-2020 should be as follows:

#### 2019

1-5 July 2019	TDG Sub-Committee, fifty-fifth session (10 meetings)
8-10 (morning) July 2019	GHS Sub-Committee, thirty-seventh session (5 meetings)
2-11 (morning) <sup>5</sup> December 2019	TDG Sub-Committee, fifty-sixth session (15 meetings)
11 (afternoon) <sup>5</sup> -13 December 2019	GHS Sub-Committee, thirty-eighth session (5 meetings)

*Total:*

TDG: 25 meetings<sup>5</sup>

GHS: 10 meetings<sup>5</sup>

<sup>1</sup> See the report of the Committee on its seventh session (ST/SG/AC.10/42, para.16).

<sup>2</sup> See the report of the GHS Sub-Committee on its thirtieth session (ST/SG/AC.10/C.4/60, annex II).

<sup>3</sup> See the report of the GHS Sub-Committee on its thirty-first session (ST/SG/AC.10/C.4/62, annex II).

<sup>4</sup> See the report of the TDG Sub-Committee on its fifty-third session (ST/SG/AC.10/C.3/106, paras.162 to 176).

<sup>5</sup> With possibility for both sub-committees to share the meetings allocated to their respective sessions for meeting jointly all day on 11 December 2019 and 8 July 2020.

**2020**

29 June-8 (morning)<sup>55</sup> July 2020 TDG Sub-Committee, fifty-seventh session (15 meetings)

8 (afternoon)<sup>5</sup>-10 July 2020 GHS Sub-Committee, thirty-ninth session (5 meetings)

30 November-8 December 2020 TDG Sub-Committee, fifty-eighth session (14 meetings)

9-11 (morning) December 2020 GHS Sub-Committee, fortieth session (5 meetings)

11 December (afternoon) 2020 TDG-GHS Committee, tenth session (1 meeting)

*Total:*

TDG: 29 meetings<sup>5</sup>

GHS: 10 meetings<sup>5</sup>

Committee: 1 meeting

**VIII. Draft resolution 2019/... of the Economic and Social Council (agenda item 7)**

*Informal document:* INF.33 (TDG fifty-fourth session)- INF.21 (GHS thirty-sixth session)

18. The Committee adopted a draft resolution for consideration by the Council at its 2019 session (see annex IV).

**IX. Any other business (agenda item 8)**

19. Noting that the work to facilitate the use of the Manual of Tests and Criteria in the context of the GHS had been completed, the Committee considered that the reference to the “Recommendations on the Transport of Dangerous Goods” in its title was no longer appropriate, and that from now on, the Manual should be entitled “Manual of Tests and Criteria”. The secretariat was requested to take the necessary steps to reflect this change in the seventh revised edition of the Manual to be published in 2019.

**X. Adoption of the report (agenda item 9)**

20. The Committee adopted the report on its ninth session and the annexes thereto based on a draft prepared by the secretariat.

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<sup>5</sup> With possibility for both sub-committees to share the meetings allocated to their respective sessions for meeting jointly all day on 11 December 2019 and 8 July 2020.

## **Annex I**

**Amendments to the twentieth revised edition of the Recommendations on the Transport of Dangerous Goods, Model Regulations (ST/SG/AC.10/1/Rev.20)**

(See ST/SG/AC.10/46/Add.1)

## **Annex II**

**Amendments to the sixth revised edition of the Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria (ST/SG/AC.10/11/Rev.6 and Amend.1)**

(See ST/SG/AC.10/46/Add.2)

## **Annex III**

**Amendments to the seventh revised edition of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) (ST/SG/AC.10/30/Rev.7)**

(See ST/SG/AC.10/46/Add.3)

## Annex IV

### Draft resolution 2019/... of the Economic and Social Council

#### “Resolution 2019/...

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

*The Economic and Social Council,*

*Recalling* its resolutions 1999/65 of 26 October 1999 and 2017/13 of 8 June 2017,

*Having considered* the report of the Secretary-General on the work of the Committee of Experts on the Transport of Dangerous Goods and on the Globally Harmonized System of Classification and Labelling of Chemicals during the biennium 2017–2018,<sup>1</sup>

#### **A. Work of the Committee regarding the transport of dangerous goods**

*Recognizing* the importance of the work of the Committee for the harmonization of codes and regulations relating to the transport of dangerous goods,

*Bearing in mind* the need to maintain safety standards at all times and to facilitate trade, as well as the importance of these issues to the various organizations responsible for modal regulations, while meeting the growing concern for the protection of life, property and the environment through the safe and secure transport of dangerous goods,

*Noting* the ever-increasing volume of dangerous goods being introduced into worldwide commerce and the rapid expansion of technology and innovation,

*Recalling* that, while the major international instruments governing the transport of dangerous goods by the various modes of transport and many national regulations are now better harmonized with the Model Regulations annexed to the recommendations of the Committee on the transport of dangerous goods, further work on harmonizing these instruments is necessary to enhance safety and to facilitate trade, and recalling also that uneven progress in the updating of national inland transport legislation in some countries of the world continues to present serious challenges to international multimodal transport,

1. *Expresses its appreciation* for the work of the Committee of Experts on the Transport of Dangerous Goods and on the Globally Harmonized System of Classification and Labelling of Chemicals with respect to matters relating to the transport of dangerous goods, including their security in transport;

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<sup>1</sup> [E/2019/...].



2. *Requests* the Secretary-General:

(a) To circulate the new and amended recommendations on the transport of dangerous goods<sup>2</sup> to the Governments of Member States, the specialized agencies, the International Atomic Energy Agency and other international organizations concerned;

(b) To publish the twenty-first revised edition of the *Recommendations on the Transport of Dangerous Goods: Model Regulations* and the seventh revised edition of the *Manual of Tests and Criteria* in all the official languages of the United Nations, in the most cost-effective manner, no later than the end of 2019;

(c) To make those publications available in book and electronic format and on the website of the Economic Commission for Europe, which provides secretariat services to the Committee;

3. *Invites* all Governments, the regional commissions, the specialized agencies, the International Atomic Energy Agency and the other international organizations concerned to transmit to the secretariat of the Committee their views on the work of the Committee, together with any comments that they may wish to make on the recommendations on the transport of dangerous goods;

4. *Invites* all interested Governments, the regional commissions, the specialized agencies and the international organizations concerned to take into account the recommendations of the Committee when developing or updating appropriate codes and regulations;

5. *Requests* the Committee to study, in consultation with the International Maritime Organization, the International Civil Aviation Organization, the regional commissions and the intergovernmental organizations concerned, the possibilities of improving the implementation of the Model Regulations on the transport of dangerous goods in all countries for the purposes of ensuring a high level of safety and eliminating technical barriers to international trade, including through the further harmonization of international agreements or conventions governing the international transport of dangerous goods;

6. *Invites* all Governments, as well as the regional commissions and organizations concerned, the International Maritime Organization and the International Civil Aviation Organization to provide feedback to the Committee regarding differences between the provisions of national, regional or international legal instruments and those of the Model Regulations, in order to enable the Committee to develop cooperative guidelines for enhancing consistency between these requirements and reducing unnecessary impediments; to identify existing substantive and international, regional and national differences, with the aim of reducing those differences in modal treatment to the greatest extent practical and ensuring that, where differences are necessary, they do not pose impediments to the safe and efficient transport of dangerous goods; and to undertake an editorial review of the Model Regulations and various modal instruments with the aim of improving clarity, user friendliness and ease of translation;

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<sup>2</sup> ST/SG/AC.10/46/Add.1 and 2.

**B. Work of the Committee regarding the Globally Harmonized System of Classification and Labelling of Chemicals**

*Bearing in mind* that in paragraph 23 (c) of the Plan of Implementation of the World Summit on Sustainable Development (Johannesburg Plan of Implementation),<sup>3</sup> countries were encouraged to implement the Globally Harmonized System of Classification and Labelling of Chemicals as soon as possible with a view to having the system fully operational by 2008,

*Bearing in mind also* that the General Assembly, in its resolution 57/253 of 20 December 2002, endorsed the Johannesburg Plan of Implementation and requested the Economic and Social Council to implement the provisions of the Plan relevant to its mandate and, in particular, to promote the implementation of Agenda 21<sup>4</sup> by strengthening system-wide coordination,

*Noting with satisfaction:*

(a) That the Economic Commission for Europe and all United Nations programmes and specialized agencies concerned with chemical safety in the field of transport or of the environment, in particular the United Nations Environment Programme, the International Maritime Organization and the International Civil Aviation Organization, have already taken appropriate steps to amend or update their legal instruments in order to give effect to the Globally Harmonized System or are considering amending them as soon as possible,

(b) That the International Labour Organization, the Food and Agriculture Organization of the United Nations and the World Health Organization are also taking appropriate steps to adapt their existing chemical safety recommendations, codes and guidelines to the Globally Harmonized System, in particular in the areas of occupational health and safety, pesticide management and the prevention and treatment of poisoning,

(c) That national legislation or standards implementing the Globally Harmonized System, or allowing its application, in one or several sectors other than transport have already been issued in Argentina (2015), Australia (2012), Brazil (2009), Canada (2015), China (2010), Colombia (2018), Costa Rica (2017) Ecuador (2009), Japan (2006), Mauritius (2004), Mexico (2011), New Zealand (2001), the Republic of Korea (2006), the Russian Federation (2010), Serbia (2010), Singapore (2008), South Africa (2009), Switzerland (2009), Thailand (2012), the United States of America (2012), Uruguay (2009), Viet Nam (2009) and Zambia (2013), as well as in the 28 States members of the European Union and the 3 States members of the European Economic Area (2008) and in the States members of the Eurasian Economic Union (Armenia, Belarus, Kazakhstan, Kyrgyzstan and the Russian Federation) (2017),

(d) That work on the development or revision of national legislation, standards or guidelines applicable to chemicals in the implementation of the Globally Harmonized System continues in other countries, while in some others activities related to the development of sectoral implementation plans or national

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<sup>3</sup> *Report of the World Summit on Sustainable Development, Johannesburg, South Africa, 26 August–4 September 2002* (United Nations publication, Sales No. E.03.II.A.1 and corrigendum), chap. I, resolution 2, annex.

<sup>4</sup> *Report of the United Nations Conference on Environment and Development, Rio de Janeiro, 3–14 June 1992*, vol. I, *Resolutions Adopted by the Conference* (United Nations publication, Sales No. E.93.I.8 and corrigendum), resolution 1, annex II.

implementation strategies are being conducted or are expected to be initiated soon,

(e) That a number of United Nations programmes and specialized agencies and regional organizations, in particular the United Nations Institute for Training and Research, the International Labour Organization, the World Health Organization, the Economic Commission for Europe, Asia-Pacific Economic Cooperation, the Organization for Economic Cooperation and Development and the European Union, Governments and non-governmental organizations representing the chemical industry have organized or contributed to multiple workshops, seminars and other capacity-building activities at the international, regional, subregional and national levels, in order to raise administration, health sector and industry awareness and to prepare for or support the implementation of the Globally Harmonized System,

*Aware* that effective implementation will require further cooperation between the Subcommittee of Experts on the Globally Harmonized System of Classification and Labelling of Chemicals and the international bodies concerned, continued efforts by the Governments of Member States, cooperation with the industry and other stakeholders, and significant support for capacity-building activities in countries with economies in transition and developing countries,

*Recalling* the particular significance of the Global Partnership for Capacity-building to Implement the Globally Harmonized System of Classification and Labelling of Chemicals of the United Nations Institute for Training and Research, the International Labour Organization and the Organization for Economic Cooperation and Development for building capacities at all levels,

1. *Commends* the Secretary-General on the publication of the seventh revised edition of the *Globally Harmonized System of Classification and Labelling of Chemicals*<sup>5</sup> in the six official languages of the United Nations, electronically and in book form, and its availability, together with related informational material, on the website of the Economic Commission for Europe, which provides secretariat services to the Committee;

2. *Expresses its deep appreciation* to the Committee, the Commission and the United Nations programmes, specialized agencies and other organizations concerned for their fruitful cooperation and their commitment to the implementation of the Globally Harmonized System;

3. *Requests* the Secretary-General:

(a) To circulate the amendments<sup>6</sup> to the seventh revised edition of the *Globally Harmonized System* to the Governments of Member States, the specialized agencies and other international organizations concerned;

(b) To publish the eighth revised edition of the *Globally Harmonized System* in all the official languages of the United Nations in the most cost-effective manner, no later than the end of 2019, and to make it available in book and electronic format and on the website of the Commission;

(c) To continue to make information on the implementation of the Globally Harmonized System available on the website of the Commission;

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<sup>5</sup> ST/SG/AC.10/30/Rev.7.

<sup>6</sup> ST/SG/AC.10/46/Add.3.

4. *Invites* Governments that have not yet done so to take the necessary steps, through appropriate national procedures and/or legislation, to implement the Globally Harmonized System as soon as possible;

5. *Reiterates its invitation* to the regional commissions, United Nations programmes, specialized agencies and other organizations concerned to promote the implementation of the Globally Harmonized System and, where relevant, to amend their respective international legal instruments addressing transport safety, workplace safety, consumer protection or the protection of the environment, so as to give effect to the Globally Harmonized System through such instruments;

6. *Invites* Governments, the regional commissions, United Nations programmes, specialized agencies and other organizations concerned to provide feedback to the Subcommittee of Experts on the Globally Harmonized System of Classification and Labelling of Chemicals on the steps taken for the implementation of the Globally Harmonized System in all relevant sectors, through international, regional or national legal instruments, recommendations, codes and guidelines, including, when applicable, information about the transitional periods for its implementation;

7. *Encourages* Governments, the regional commissions, United Nations programmes, specialized agencies and other relevant international organizations and non-governmental organizations, in particular those representing industry, to strengthen their support for the implementation of the Globally Harmonized System by providing financial contributions and/or technical assistance for capacity-building activities in developing countries and countries with economies in transition;

### **C. Programme of work of the Committee**

*Taking note* of the programme of work of the Committee for the biennium 2019–2020 as contained in paragraphs [...] and [...] of the report of the Secretary-General,<sup>1</sup>

*Noting* the relatively poor level of participation of experts from developing countries and countries with economies in transition in the work of the Committee and the need to promote their wider participation in its work,

1. *Decides* to approve the programme of work of the Committee;<sup>1</sup>

2. *Stresses* the importance of the participation of experts from developing countries and countries with economies in transition in the work of the Committee, calls in that regard for voluntary contributions to facilitate their participation, including through support for travel and daily subsistence, and invites Member States and international organizations in a position to do so to contribute;

3. *Requests* the Secretary-General to submit to the Economic and Social Council in 2021 a report on the implementation of the present resolution, the recommendations on the transport of dangerous goods and the Globally Harmonized System of Classification and Labelling of Chemicals.