

## 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 Globally Harmonized  
System of Classification and Labelling of Chemicals

15 September 2020

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Item 3 (b) of the provisional agenda

**Classification criteria and related hazard communication:  
review of Chapter 2.1**

## **Precautionary statement matrices for new GHS Chapter 2.1 and a minor correction regarding current application of P230**

### **Transmitted by the expert from Sweden**

1. In document ST/SG/AC.10/C.3/2020/20–ST/SG/AC.10/C.4/2020/5, as amended by document ST/SG/AC.10/C.3/2020/20/Add.1–ST/SG/AC.10/C.4/2020/5/Add.1, a new Chapter 2.1 for the GHS is proposed. As a result, the existing Precautionary statements for explosives have to be reallocated to the new classifications of the chapter. The main part of that reallocation is proposed in document ST/SG/AC.10/C.3/2020/23–ST/SG/AC.10/C.4/2020/8. In addition a new Precautionary statement P236 is proposed in document ST/SG/AC.10/C.3/2020/23/Add.1–ST/SG/AC.10/C.4/2020/8/Add.1.

2. The matrices in Section 3 of Annex 3 of the GHS contain summary tables for Precautionary statements for each classification. As a consequence of the new GHS Chapter 2.1, new corresponding matrices for explosives are needed. These new matrices merely implement the proposals made in ST/SG/AC.10/C.3/2020/23–ST/SG/AC.10/C.4/2020/8 and ST/SG/AC.10/C.3/2020/23/Add.1–ST/SG/AC.10/C.4/2020/8/Add.1 and do not in themselves contain any new proposals.

3. When drafting these matrices it was discovered that the current application of Precautionary statement P230 (“Keep diluted with ...”) is not correctly reflected in paragraph 8 of document ST/SG/AC.10/C.3/2020/23–ST/SG/AC.10/C.4/2020/8, nor in the table in Annex I to that document. Whereas it is stated there that P230 is currently applied to all explosives classifications except “unstable explosives”, the fact is that P230 is currently also not applied to explosives of Division 1.4. In the list of amendments in Annex II to that document, it is however correctly reflected that the current application of P230 is to divisions 1.1, 1.2, 1.3 and 1.5 only.

4. While not understanding how this mistake went unnoticed, the expert from Sweden is quite certain that this minor error does not affect the proposal made in document ST/SG/AC.10/C.3/2020/23–ST/SG/AC.10/C.4/2020/8, which is to apply P230 to all new explosives classifications. Since the conditions for use for P230 restrict it to very few explosives anyway, making P230 available to all classifications merely means that it can be applied where needed, also for explosives in division 1.4.

### **Proposal**

5. The annex to this document contains three new matrices to replace the current three for Chapter 2.1 that come first in Section 3 of Annex 3 to the GHS. They assume

adoption of the proposals made in  
ST/SG/AC.10/C.3/2020/23–ST/SG/AC.10/C.4/2020/8 and  
ST/SG/AC.10/C.3/2020/23/Add.1– ST/SG/AC.10/C.4/2020/8/Add.1, and will need  
to be amended accordingly in case not.

# Annex

## EXPLOSIVES (CHAPTER 2.1)

| Hazard category | Symbol         | Signal word | Hazard statement   |
|-----------------|----------------|-------------|--|
| 1               | Exploding bomb | Danger      | H209 Explosive<br>H210 Very sensitive<br>H211 May be sensitive |



| Precautionary statements   |   |   |  |
|--|---|---|--|
| Prevention   | Response  | Storage   | Disposal   |
| <p>P203<br/><b>Obtain, read and follow all safety instructions before use.</b></p> <p>P210<br/><b>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</b></p> <p>P230<br/><b>Keep diluted with...</b><br/>- <i>for explosive substances and mixtures that are diluted with solids or liquids, or wetted with, dissolved or suspended in water or other liquids to reduce their explosives properties</i><br/>... Manufacturer/supplier or the competent authority to specify appropriate material.</p> <p>P240<br/><b>Ground and bond container and receiving equipment.</b><br/>- <i>if the explosive is electrostatically sensitive.</i></p> <p>P250<br/><b>Do not subject to grinding/shock/friction/...</b><br/>- <i>if the explosive is mechanically sensitive.</i><br/>...Manufacturer/supplier or the competent authority to specify applicable rough handling.</p> <p>P280<br/><b>Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...</b><br/>Manufacturer/supplier or the competent authority to specify the appropriate personal protective equipment.</p> | <p>P370 + P372 + P380 + P373<br/><b>In case of fire: Explosion risk. Evacuate area. DO NOT fight fire when fire reaches explosives.</b></p> | <p>P401<br/><b>Store in accordance with...</b><br/>...<br/>Manufacturer/supplier or the competent authority to specify local/regional/national/international regulations as applicable.</p> | <p>P503<br/><b>Refer to manufacturer/supplier/... for information on disposal/recovery/recycling</b><br/>... Manufacturer/supplier or the competent authority to specify appropriate source of information in accordance with local/regional/national/international regulations as applicable.</p> |

**EXPLOSIVES  
(CHAPTER 2.1)**

| Hazard category | Symbol         | Signal word | Hazard statement                   |
|-----------------|----------------|-------------|------------------------------------|
| 2A              | Exploding bomb | Danger      | H2 Explosive<br>09                 |
| 2B              | Exploding bomb | Warning     | H2 Fire or projection hazard<br>04 |



| Precautionary statements   |   |   |  |
|--|---|---|--|
| Prevention   | Response  | Storage   | Disposal   |
| <p>P203<br/><b>Obtain, read and follow all safety instructions before use.</b></p> <p>P210<br/><b>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</b></p> <p>P230<br/><b>Keep diluted with...</b><br/><i>- for explosive substances and mixtures that are diluted with solids or liquids, or wetted with, dissolved or suspended in water or other liquids to reduce their explosives properties</i><br/>... Manufacturer/supplier or the competent authority to specify appropriate material.</p> <p>P234<br/><b>Keep only in original packaging.</b><br/><i>- Omit where P236 is applied</i></p> <p>P236<br/><b>Keep only in original packaging; Division ... in the transport configuration.</b><br/><i>- may be omitted for single packaging where the transport pictogram displaying the division (within Class 1) appears.</i><br/><i>- may be omitted where the use of different outer packaging results in different divisions for transport.</i><br/>... Manufacturer/supplier or the competent authority to specify the division for transport.</p> <p>P240<br/><b>Ground and bond container and receiving equipment.</b><br/><i>- if the explosive is electrostatically sensitive.</i></p> <p>P250<br/><b>Do not subject to grinding/shock/friction/...</b><br/><i>- if the explosive is mechanically sensitive.</i><br/>... Manufacturer/supplier or the competent authority to specify applicable rough handling.</p> <p>P280<br/><b>Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...</b><br/>Manufacturer/supplier or the competent authority to specify the appropriate personal protective equipment.</p> | <p>P370 + P372 + P380 + P373<br/><b>In case of fire: Explosion risk. Evacuate area. DO NOT fight fire when fire reaches explosives.</b></p> | <p>P401<br/><b>Store in accordance with...</b><br/>... Manufacturer/supplier or the competent authority to specify local/regional/national/international regulations as applicable.</p> | <p>P503<br/><b>Refer to manufacturer/supplier/... for information on disposal/recovery/recycling</b><br/>... Manufacturer/supplier or the competent authority to specify appropriate source of information in accordance with local/regional/national/international regulations as applicable.</p> |

**EXPLOSIVES  
(CHAPTER 2.1)**

|                        |                  |                    |                                |
|------------------------|------------------|--------------------|--------------------------------|
| <b>Hazard category</b> | <b>Symbol</b>    | <b>Signal word</b> | <b>Hazard statement</b>        |
| 2C                     | Exclamation mark | Warning            | H204 Fire or projection hazard |



| Precautionary statements  |   |   |  |
|---|---|---|--|
| Prevention  | Response  | Storage   | Disposal   |
| <p>P210<br/><b>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</b></p> <p>P230<br/><b>Keep diluted with...</b><br/><i>- for explosive substances and mixtures that are diluted with solids or liquids, or wetted with, dissolved or suspended in water or other liquids to reduce their explosives properties</i><br/>... Manufacturer/supplier or the competent authority to specify appropriate material.</p> <p>P234<br/><b>Keep only in original packaging.</b><br/><i>- Omit where P236 is applied</i></p> <p>P236<br/><b>Keep only in original packaging; Division ... in the transport configuration.</b><br/><i>- may be omitted for single packaging where the transport pictogram displaying the division (within Class 1) appears.</i><br/><i>- may be omitted where the use of different outer packaging results in different divisions for transport.</i><br/>... Manufacturer/supplier or the competent authority to specify the division for transport.</p> <p>P240<br/><b>Ground and bond container and receiving equipment.</b><br/><i>- if the explosive is electrostatically sensitive.</i></p> <p>P250<br/><b>Do not subject to grinding/shock/friction/...</b><br/><i>- if the explosive is mechanically sensitive.</i><br/>... Manufacturer/supplier or the competent authority to specify applicable rough handling.</p> <p>P280<br/><b>Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...</b><br/>Manufacturer/supplier or the competent authority to specify the appropriate personal protective equipment.</p> | <p>P370 + P380 + P375<br/><b>In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion</b></p> | <p>P401<br/><b>Store in accordance with...</b><br/>... Manufacturer/supplier or the competent authority to specify local/regional/national/international regulations as applicable.</p> | <p>P503<br/><b>Refer to manufacturer/supplier/... for information on disposal/recovery/recycling</b><br/>... Manufacturer/supplier or the competent authority to specify appropriate source of information in accordance with local/regional/national/international regulations as applicable.</p> |