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
Fifty-fifth session
Geneva, 1-5 July 2019
Item 10 (a) of the provisional agenda

Sub-Committee of Experts on the Globally Harmonized System of Classification and Labelling of Chemicals
Thirty-seventh session
Geneva, 8-10 July 2019
Item 2 (a) of the provisional agenda

Issues relating to the Globally Harmonized System of Classification and Labelling of Chemicals: testing of oxidizing substances

Tests for oxidizing liquids and oxidizing solids
Improvement regarding consideration for particle size, friable or coated materials

Additional information to document

Transmitted by the expert from France

Introduction

1. The purpose of this informal document is to provide the Sub-Committees with additional information in support of the document ST/SG/AC.10/C.3/2019/20-ST/SG/AC.10/C.4/2019/4 on tests for oxidizing liquids and oxidizing solids, improvement regarding consideration for particle size, friable or coated materials.

Information

2. France wishes to inform the Sub-Committees on the progress of work related to the tests for oxidizing liquids and oxidizing solids.

3. A Round Robin Test (RRT) with the focus on several aspects of the UN Tests on oxidizing solids was launched at the end of 2018. Among these aspects we can mention: the effect of coatings on the oxidizer properties of a solid oxidizer and the effects of fines on the oxidizer properties of a granulated solid oxidizer. Detailed results on the outcome of this RRT are under consolidation.

4. A review of 10 existing test methods identified to assess friability or attrition characteristics and used in different fields for solid granular materials was carried out. This permitted to identify a candidate test method which could help to assess if “a substance is friable or not” in reference to the paragraphs 34.4.1.2.6 and 34.4.3.2.3 of the UN Manual of Tests and Criteria.