

**Registration Form**

**Chemical Handling CEU Course \$100.00**  
**48 HOUR RUSH ORDER PROCESSING FEE ADDITIONAL \$50.00**

**Start and Finish Dates:** \_\_\_\_\_ *You will have 90 days from this date in order to complete this course*

List number of hours worked on assignment must match State Requirement. \_\_\_\_\_

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*I have read and understood the disclaimer notice on page 2. Digitally sign XXX*

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**Please circle/check which certification you are applying the course CEU's.**

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**Professional Engineers;** Most states will accept our courses for credit but we do not officially list the States or Agencies. Please check your State for approval.

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I affirm that I personally completed the entire text of the course. I also affirm that I completed the exam without assistance from any outside source. I understand that it is my responsibility to file or maintain my certificate of completion as required by the state or by the designation organization.

## **Grading Information**

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## Chemical Handling Course Assignment

Name \_\_\_\_\_

Phone \_\_\_\_\_

You are solely responsible in ensuring that this course is accepted for credit by your State. **No refunds.** Did you check with your State agency to ensure this course is accepted for credit?

*Method of Course acceptance confirmation. Please fill this section*

Website \_\_\_ Telephone Call \_\_\_ Email \_\_\_ Spoke to \_\_\_\_\_

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***Please circle, underline, bold or X only one correct answer***

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Please e-mail or fax this survey along with your final exam

**CHEMICAL HANDLING CEU COURSE  
CUSTOMER SERVICE RESPONSE CARD**

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APPROPRIATE ANSWER IN THE AREA BELOW.**

1. Please rate the difficulty of your course.

Very Easy    0       1       2       3       4       5    Very Difficult

2. Please rate the difficulty of the testing process.

Very Easy    0       1       2       3       4       5    Very Difficult

3. Please rate the subject matter on the exam to your actual field or work.

Very Similar    0       1       2       3       4       5    Very Different

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What would you do to improve the course?

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How was your customer service?

Poor \_\_\_\_ Fair \_\_\_\_ Average \_\_\_\_ Good \_\_\_\_ Great \_\_\_\_

Any other concerns or comments.

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# Chemical Handling CEU Training Assignment

*The Assignment (Exam) is also available in Word on the Internet for your Convenience, please visit [www.ABCTLC.com](http://www.ABCTLC.com) and download the assignment and e-mail it back to TLC.*

You will have 90 days from the start of this course to complete in order to receive your Professional Development Hours (**PDHs**) or Continuing Education Unit (**CEU**). A score of 70 % is necessary to pass this course. We prefer if this exam is proctored. No intentional trick questions. If you should need any assistance, please email all concerns and the completed manual to [info@tlch2o.com](mailto:info@tlch2o.com).

We would prefer that you utilize the enclosed answer sheet in the front, but if you are unable to do so, type out your own answer key. Please include your name and address on your Answer Key and make copy for yourself. You can e-mail or fax your Answer Key along with the Registration Form to TLC. **(S) Means answer may be plural or singular. Multiple Choice Section, One answer per question and please use the answer key.**

## Revised Hazard Communication Program

1. OSHA's HazCom rule has significant new requirements that will require employers to train their employees how to read and interpret the?  
A. New SDS  
B. Hazard information  
C. Identities and hazards  
D. Hazardous chemicals  
E. Right to understand  
F. None of the Above
2. The new Hazard Communication Standard still requires chemical manufacturers and importers to evaluate the chemicals they produce or import and provide \_which missing term - to employers and workers by putting labels on containers and preparing safety data sheets.  
A. SDS/MSDS  
B. Safety data sheets and labels  
C. Specific criteria  
D. Hazard communication elements  
E. Hazard information  
F. None of the Above
3. Which of the following terms allowed chemical manufacturers and importers to convey hazard information on labels and material safety data sheets in whatever format they chose?  
A. OSHA's HazCom rule  
B. Old standard  
C. Identities and hazards  
D. Hazardous chemicals  
E. Right to understand  
F. None of the Above
4. Which of the following terms provides a single set of harmonized criteria for classifying chemicals according to their health and physical hazards and specifies hazard communication elements for labeling and safety data sheets?  
A. SDS/MSDS  
B. Safety data sheets and labels  
C. Specific criteria  
D. Hazard communication elements  
E. Modified standard  
F. None of the Above
5. New 2012 changes to OSHA's \_\_\_\_\_ are bringing the U.S. into alignment with the Globally Harmonized System of Classification and Labeling of Chemicals, improving safety and health protections for America's workers.  
A. SDS/MSDS  
B. Safety data sheets and labels  
C. Specific criteria  
D. Hazard communication elements  
E. Hazard Communication Standard  
F. None of the Above

6. The Hazard Communication Standard in 1983 gave the workers the \_\_\_\_\_ but the new Globally Harmonized System gives workers the 'right to understand.'

- A. OSHA's HazCom rule
- B. Hazard information
- C. Identities and hazards
- D. Right to know
- E. Right to understand
- F. None of the Above

7. The Safety Data Sheet is at the heart of federal OSHA's?

- A. Hazard communication standard (HazCom)
- B. Hazard information
- C. Identities and hazards
- D. Hazardous chemicals
- E. Right to understand
- F. None of the Above

8. Which of the following terms is a detailed, written description of a hazardous chemical that must be kept in the workplace where such chemicals are used?

- A. SDS/MSDS
- B. Safety data sheets and labels
- C. Specific criteria
- D. Hazard communication elements
- E. Hazard Communication Standard (HCS)
- F. None of the Above

### **More on the Revised Hazard Communication Standard**

9. This update will also help reduce trade barriers and result in productivity improvements for American businesses that regularly handle, store, and use hazardous chemicals while providing cost savings for American businesses that periodically update \_\_\_\_\_ covered under the hazard communication standard.

- A. SDS/MSDS
- B. Safety data sheets
- C. Specific criteria
- D. Hazard communication elements
- E. Safety data sheets and labels for chemicals
- F. None of the Above

10. Which of the following terms will provide a common and coherent approach to classifying chemicals and communicating hazard information on labels and safety data sheets?

- A. SDS/MSDS
- B. Safety data sheets and labels
- C. Specific criteria
- D. Hazard communication elements
- E. Hazard Communication Standard (HCS)
- F. None of the Above

11. Once implemented, the revised standard will improve the quality and consistency of hazard information in the workplace, making it safer for workers by providing easily understandable information on appropriate handling and safe use of?

- A. OSHA's HazCom rule
- B. Hazard information
- C. Identities and hazards
- D. Hazardous chemicals
- E. Right to understand
- F. None of the Above

12. In order to ensure \_\_\_\_\_ in the workplace, information about the identities and hazards of the chemicals must be available and understandable to workers.

- A. OSHA's HazCom rule
- B. Hazard information
- C. Identities and hazards
- D. Hazardous chemicals
- E. Chemical safety
- F. None of the Above

13. Chemical manufacturers and importers are required to evaluate the \_\_\_\_\_ they produce or import, and prepare labels and safety data sheets to convey the hazard information to their downstream customers.

- A. SDS/MSDS
- B. Safety data sheets and labels
- C. Specific criteria
- D. Hazard communication elements
- E. Hazards of the chemicals
- F. None of the Above

14. All employers with - this missing term - in their workplaces must have labels and safety data sheets for their exposed workers, and train them to handle the chemicals appropriately.

- A. OSHA's HazCom rule
- B. Hazard information
- C. Identities and hazards
- D. Hazardous chemicals
- E. Right to understand
- F. None of the Above

### Major changes to the Hazard Communication Standard

15. Which of the following terms provides specific criteria for classification of health and physical hazards, as well as classification of mixtures?

- A. SDS/MSDS
- B. Safety data sheets and labels
- C. Hazard classification
- D. Hazard communication elements
- E. Hazard Communication Standard (HCS)
- F. None of the Above

16. Labels: Chemical manufacturers and importers will be required to provide a label that includes a harmonized signal word, pictogram, and hazard statement for each?

- A. Specific, detailed criteria
- B. Standardized label elements
- C. HCS
- D. Hazard class and category
- E. GHS
- F. None of the Above

17. Employers are required to train workers by December 1, 2013 on the new labels elements and safety data sheets format to facilitate?

- A. Recognition and understanding
- B. Model regulation
- C. GHS
- D. The Purple Book
- E. Hazard Communication Standard (HCS)
- F. None of the Above

### What is the Globally Harmonized System?

18. The Globally Harmonized System is \_\_\_\_\_ to hazard communication, providing agreed criteria for classification of chemical hazards, and a standardized approach to label elements and safety data sheets.

- A. Hazard classification
- B. An international approach
- C. Degree of hazard
- D. Existing hazard communication regulatory schemes
- E. Hazards associated
- F. None of the Above

19. Which of the following terms was negotiated in a multi-year process by hazard communication experts from many different countries, international organizations, and stakeholder groups?

- A. Revised HCS
- B. Model regulation
- C. GHS
- D. The Purple Book
- E. Hazard Communication Standard (HCS)
- F. None of the Above

20. It is based on major existing systems around the world, including- this missing term - and the chemical classification and labeling systems of other US agencies.

- A. Specific, detailed criteria
- B. Standardized label elements
- C. SDS
- D. OSHA's Hazard Communication Standard
- E. GHS
- F. None of the Above

21. The result of this negotiation process is the United Nations' document entitled "Globally Harmonized System of Classification and Labeling of Chemicals," commonly referred to as?

- A. Revised HCS
- B. Model regulation
- C. GHS
- D. The Purple Book
- E. Hazard Communication Standard (HCS)
- F. None of the Above

22. This document provides harmonized classification criteria for health, physical, and environmental hazards of chemicals. It also includes standardized label elements that are assigned to these hazard classes and categories, and provide the appropriate signal words, pictograms, and hazard and precautionary statements to convey the?

- A. Specific, detailed criteria
- B. Standardized label elements
- C. HCS
- D. Hazard classes and hazard categories
- E. Hazards to users
- F. None of the Above

23. A standardized order of information for safety data sheets is also provided. These recommendations can be used by regulatory authorities such as OSHA to establish - this missing term - for hazard communication, but do not constitute a model regulation.

- A. Revised HCS
- B. Model regulation
- C. GHS
- D. Mandatory requirements
- E. Hazard Communication Standard (HCS)
- F. None of the Above

**No intentional trick questions.**

**What Hazard Communication Standard provisions are unchanged in the revised HCS?**

24. The revised Hazard Communication Standard is a modification to the existing standard. The parts of the standard that did not relate to the \_\_\_\_\_ remained largely unchanged.

- A. Specific, detailed criteria
- B. Standardized label elements
- C. HCS
- D. Hazard classes and hazard categories
- E. GHS
- F. None of the Above

25. There have been some modifications to terminology in order to align the \_\_\_\_\_ with language used in the GHS.

- A. Hazard classification
- B. Safety Data Sheets
- C. Revised HCS
- D. Existing hazard communication regulatory schemes
- E. Hazards associated
- F. None of the Above

26. Which of the following terms has been changed to "hazard classification" and "material safety data sheet" was changed to "safety data sheet?"

- A. Revised HCS
- B. Model regulation
- C. GHS
- D. Hazard determination
- E. Hazard Communication Standard (HCS)
- F. None of the Above

**How will chemical hazard evaluation change under the revised Hazard Communication Standard?**

27. Under both the current Hazard Communication Standard and the \_\_\_\_\_ an evaluation of chemical hazards must be performed considering the available scientific evidence concerning such hazards.

- A. Revised HCS
- B. Model regulation
- C. GHS
- D. Revised OSHA
- E. Hazard Communication Standard (HCS)
- F. None of the Above

28. Under the current \_\_\_\_\_, the hazard determination provisions have definitions of hazard and the evaluator determines whether or not the data on a chemical meet those definitions.

- A. Specific, detailed criteria
- B. Standardized label elements
- C. HCS
- D. Hazard classes and hazard categories
- E. GHS
- F. None of the Above

29. The hazard classification approach in the \_\_\_\_\_ is quite different.

- A. Revised HCS
- B. Model regulation
- C. GHS
- D. The Purple Book
- E. Hazard Communication Standard (HCS)
- F. None of the Above

30. It also establishes both hazard classes and hazard categories—for most of the effects; the classes are divided into categories that reflect the?

- A. Specific, detailed criteria
- B. Standardized label elements
- C. HCS
- D. Hazard classes and hazard categories
- E. Relative severity of the effect
- F. None of the Above

31. Which of the following terms does not include categories for most of the health hazards covered, so this new approach provides additional information that can be related to the appropriate response to address the hazard?

- A. Revised HCS
- B. Model regulation
- C. GHS
- D. Current HCS
- E. Hazard Communication Standard (HCS)
- F. None of the Above

## **United Nations Globally Harmonized System of Classification and Labeling of Chemicals**

### **1.0 Background**

32. The purpose of this document is to describe the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS), why it was developed, and how it relates to the?

- A. Earth Summit
- B. Several U.S. regulatory agencies
- C. Regulatory authorities in countries
- D. National, regional and international levels
- E. The widespread use of chemicals
- F. None of the Above

### **1.1 What is the GHS?**

33. The GHS is a system for - this missing term - the classification and labeling of chemicals. It is a logical and comprehensive approach to: Defining health, physical and environmental hazards of chemicals;

- A. Cradle to grave
- B. Hazards to human health
- C. Multiple safety data sheets
- D. Standardizing and harmonizing
- E. Hazardous properties of chemicals
- F. None of the Above

34. Creating classification processes that use available data on chemicals for comparison with the defined?

- A. Hazard classification
- B. Safety Data Sheets
- C. Degree of hazard
- D. Hazard criteria
- E. Hazards associated
- F. None of the Above

35. Communicating hazard information, as well as \_\_\_\_\_ on labels and Safety Data Sheets.

- A. Cradle to grave
- B. Hazards to human health
- C. Multiple safety data sheets
- D. Protective measures
- E. Hazardous properties of chemicals
- F. None of the Above

36. The GHS itself is not a?

- A. Regulation or a standard
- B. Several U.S. regulatory agencies
- C. Regulatory authorities in countries
- D. National, regional and international levels
- E. The widespread use of chemicals
- F. None of the Above

37. The elements in the \_\_\_\_\_ - a mechanism to meet the basic requirement of any hazard communication system, which is to decide if the chemical product produced and/or supplied is hazardous and to prepare a label and/or Safety Data Sheet as appropriate.

- A. Cradle to grave
- B. Hazards to human health
- C. Multiple safety data sheets
- D. GHS supply
- E. Hazardous properties of chemicals
- F. None of the Above

38. Regulatory authorities in countries adopting the GHS will thus take the agreed criteria and provisions, and implement them through their own regulatory process and procedures rather than simply incorporating the text of the?

- A. Earth Summit
- B. Several U.S. regulatory agencies
- C. Regulatory authorities in countries
- D. National, regional and international levels
- E. GHS into their national requirements
- F. None of the Above

39. The GHS Document thus provides countries with the regulatory building blocks to develop or modify existing national programs that address classification of hazards and transmittal of information about those hazards and associated protective measures. This helps to ensure the safe use of chemicals as they move through the \_\_\_\_\_ from "cradle to grave."

- A. Product life cycle
- B. Hazards to human health
- C. Multiple safety data sheets
- D. GHS
- E. Hazardous properties of chemicals
- F. None of the Above

### 1.2 Why was the GHS developed?

40. Chemicals directly or indirectly affect our lives and are essential to our food, our health, and our lifestyle. The widespread use of chemicals has resulted in the development of?

- A. Sector-specific regulations
- B. Several U.S. regulatory agencies
- C. Regulatory authorities in countries
- D. National, regional and international levels
- E. The widespread use of chemicals
- F. None of the Above

41. Having readily available information on \_\_\_\_\_ - this missing term - and recommended control measures, allows the production, transport, use and disposal of chemicals to be managed safely. Thus, human health and the environment are protected.

- A. Cradle to grave
- B. Hazards to human health
- C. Multiple safety data sheets
- D. GHS
- E. Hazardous properties of chemicals
- F. None of the Above

42. Which of the following terms should include systems through which chemical hazards are identified and communicated to all who are potentially exposed?

- A. Earth Summit
- B. Several U.S. regulatory agencies
- C. Regulatory authorities in countries
- D. National, regional and international levels
- E. The widespread use of chemicals
- F. None of the Above

43. It is important to know what chemicals are present and/or used, their hazards to human health and the environment, and the?

- A. Means to control them
- B. Hazards to human health
- C. Multiple safety data sheets
- D. GHS
- E. Hazardous properties of chemicals
- F. None of the Above

44. Which of the following terms - each addressing specific use patterns and groups of chemicals, exist at the national, regional and international levels?

- A. Hazard classification
- B. Safety Data Sheets
- C. Degree of hazard
- D. Number of classification and labeling systems
- E. Hazards associated
- F. None of the Above

45. While the existing laws and regulations are similar, they are different enough to require multiple labels for the same product both within the U.S. and in international trade and to require \_\_\_\_\_ for the same product in international trade.

- A. Cradle to grave
- B. Hazards to human health
- C. Multiple safety data sheets
- D. GHS
- E. Hazardous properties of chemicals
- F. None of the Above

46. Several U.S. regulatory agencies and various countries have different requirements for hazard definitions as well as for information to be included on?

- A. Labels or material safety data sheets
- B. Several U.S. regulatory agencies
- C. Regulatory authorities in countries
- D. National, regional and international levels
- E. The widespread use of chemicals
- F. None of the Above

47. Flammable liquid is another hazard that is covered by most existing systems. The coverage varies between existing systems within the U.S. and globally. This means that the same product can be non-hazardous or hazardous with?

- A. Different labels/SDSs
- B. Hazards to human health
- C. Multiple safety data sheets
- D. GHS
- E. Hazardous properties of chemicals
- F. None of the Above

48. In the area of trade, the need to comply with multiple regulations regarding \_\_\_\_\_ and labeling is costly and time-consuming.

- A. Hazard classification
- B. Safety Data Sheets
- C. Degree of hazard
- D. Existing hazard communication regulatory schemes
- E. Hazards associated
- F. None of the Above

49. Some multinational companies have estimated that there are over 100 - this missing term - for their products globally.

- A. Cradle to grave
- B. Hazards to human health
- C. Multiple safety data sheets
- D. GHS
- E. Hazardous properties of chemicals
- F. None of the Above

### 1.3 What was the International Mandate?

50. The single most important force that drove the creation of the \_\_\_\_\_ - was the international mandate adopted in the 1992 United Nations Conference on Environment and Development, often called the "Earth Summit".

- A. Earth Summit
- B. GHS
- C. Regulatory authorities in countries
- D. National, regional and international levels
- E. Widespread use of chemicals
- F. None of the Above

51. Which of the following terms was one of six program areas that were endorsed by the United Nations General Assembly?

- A. A global approach
- B. Regulatory changes
- C. GHS
- D. Preventive and protective measures
- E. Harmonization of classification and labeling of chemicals
- F. None of the Above

52. It was recognized that an internationally \_\_\_\_\_ to classification and labeling would provide the foundation for all countries to develop comprehensive national programs to ensure the safe use of chemicals.

- A. Self-classification
- B. Hazards of a substance or mixture
- C. Harmonized approach
- D. GHS labels and/or Safety Data Sheets
- E. Existing hazard communication systems
- F. None of the Above

#### 1.4 How was the GHS developed?

53. The ILO concluded that there were \_\_\_\_\_ that needed to be harmonized to achieve a global approach.

- A. A global approach
- B. The regulatory changes
- C. Four major existing systems
- D. Preventive and protective measure for their health and safety
- E. Be exposed (workplaces), and in transport
- F. None of the Above

54. No international organization covers all aspects of?

- A. Self-classification
- B. Hazards of a substance or mixture
- C. The data used for classification
- D. Chemical classification and labeling
- E. Existing hazard communication systems
- F. None of the Above

#### 1.7 What are the benefits?

55. The basic goal of \_\_\_\_\_ - is to ensure that employers, employees and the public are provided with adequate, practical, reliable and comprehensible information.

- A. Achieve a global approach
- B. The regulatory changes
- C. GHS
- D. Preventive and protective measures
- E. Hazard communication
- F. None of the Above

#### 2.2 Will all hazardous chemicals require a GHS label and Safety Data Sheet?

56. The need for GHS labels and/or \_\_\_\_\_ is expected to vary by product category or stage in the chemical's lifecycle from research/production to end use.

- A. Self-classification
- B. Hazards of a substance or mixture
- C. The data used for classification
- D. Safety Data Sheets
- E. Existing hazard communication systems
- F. None of the Above

57. For example, pharmaceuticals, food additives, cosmetics and pesticide residues in food will **not** be covered by the \_\_\_\_\_ at the point of consumption, but will be covered where workers may be exposed, and in transport.

- A. Global approach
- B. Regulatory changes
- C. GHS
- D. Preventive and protective measure for their health and safety
- E. Transport
- F. None of the Above

58. The exact requirements for labels and \_\_\_\_\_ will continue to be defined in national regulations.

- A. Hazard classification
- B. Safety Data Sheets
- C. Degree of hazard
- D. Existing hazard communication regulatory schemes
- E. Hazards associated
- F. None of the Above

59. To the extent that countries adopt the GHS into their systems, \_\_\_\_\_ would be binding for covered industries.

- A. Achieve a global approach
- B. Regulatory changes
- C. GHS
- D. Protective measure for their health and safety
- E. Be exposed (workplaces), and in transport
- F. None of the Above



60. For countries with existing systems, it is expected that \_\_\_\_\_ will be applied within the framework/infrastructure of existing hazard communication regulatory schemes.

- A. Hazard classification
- B. Safety Data Sheets
- C. Degree of hazard
- D. GHS components
- E. Hazards associated
- F. None of the Above

61. Classification is \_\_\_\_\_ for hazard communication. It involves the identification of the hazard(s) of a chemical or mixture by assigning a category of hazard/danger using defined criteria.

- A. A global approach
- B. The regulatory changes
- C. The starting point
- D. Preventive and protective measure for their health and safety
- E. Be exposed (workplaces), and in transport
- F. None of the Above

62. The GHS is designed to be consistent and transparent. It draws a clear distinction between classes and categories in order to allow for "self-classification". For many hazards a decision tree approach is provided in?

- A. Self-classification
- B. Hazards of a substance or mixture
- C. The data used for classification
- D. The GHS Document
- E. Existing hazard communication systems
- F. None of the Above

63. For several hazards - this missing term - are semi-quantitative or qualitative. Expert judgment may be required to interpret these data.

- A. The global approaches
- B. The regulatory changes
- C. The GHS criteria
- D. Preventive and protective measure for their health and safety
- E. All of the Above
- F. None of the Above

### **Hazard Classification**

64. Which of the following terms is used to indicate that only the intrinsic hazardous properties of substances and mixtures are considered?

- A. Self-classification
- B. Hazards of a substance or mixture
- C. The data used for classification
- D. GHS labels and/or Safety Data Sheets
- E. Hazard classification
- F. None of the Above

65. Subsequent review of those data to ascertain the hazards associated with the?

- A. Hazard classification
- B. Safety Data Sheets
- C. Degree of hazard
- D. Existing hazard communication regulatory schemes
- E. Substance or mixture
- F. None of the Above

66. A decision on whether the substance or mixture will be classified as a hazardous substance or mixture and the - missing term -, where appropriate, by comparison of the data with agreed hazard classification criteria.

- A. Hazard classification
- B. Safety Data Sheets
- C. Degree of hazard
- D. Existing hazard communication regulatory schemes
- E. Hazards associated
- F. None of the Above

67. Which of the following terms may be obtained from tests, literature, and practical experience?

- A. Hazard classification
- B. Safety Data Sheets
- C. Degree of hazard
- D. Data used for classification
- E. Hazards associated
- F. None of the Above

68. Tests that determine hazardous properties conducted according to internationally recognized scientific principles can be used for purposes of?

- A. Hazard classification
- B. Safety Data Sheets
- C. Degree of hazard
- D. Existing hazard communication regulatory schemes
- E. Hazards associated
- F. None of the Above

### 3.1 What are the GHS Physical Hazards?

69. Which of the following terms - developed by the ILO and UNCETDG, were largely based on the existing criteria used by the UN Model Regulation on the Transport of Dangerous Goods?

- A. Physical hazards classification
- B. GHS criteria
- C. Liquid or a gas
- D. GHS physical hazard criteria
- E. Scope of the GHS includes all target audiences
- F. None of the Above

70. Which of the following terms provides specific references to approved test methods and criteria for classification?

- A. Physical hazards classification process
- B. GHS criteria
- C. Liquid or a gas
- D. GHS physical hazard criteria
- E. Scope of the GHS includes all target audiences
- F. None of the Above

71. Which of the following terms for physical hazards are quantitative or semi-quantitative with multiple hazard levels within an endpoint. This is different from several of the existing systems that currently have qualitative criteria for various physical hazards.

- A. Physical hazards classification
- B. GHS criteria
- C. GHS more consistent
- D. GHS physical hazard criteria
- E. Scope of the GHS includes all target audiences
- F. None of the Above

72. In developing GHS criteria for \_\_\_\_\_ it was necessary to define physical states.

- A. Physical hazards classification
- B. GHS criteria
- C. Physical hazards
- D. GHS physical hazard criteria
- E. Scope of the GHS includes all target audiences
- F. None of the Above

73. Which of the following terms that is not a gas and which has a melting point or initial melting point of 20°C or less at standard pressure of 101.3 kPa?

- A. Physical hazards classification
- B. GHS criteria
- C. Liquid or a gas
- D. A liquid is a substance or mixture
- E. A solid is a substance or mixture
- F. None of the Above

74. Which of the following terms that does not meet the definitions of a liquid or a gas?

- A. Physical hazards classification
- B. A liquid is a substance or mixture
- C. Liquid or a gas
- D. GHS physical hazard criteria
- E. A solid is a substance or mixture
- F. None of the Above

#### 3.1.1 Explosives

75. An explosive substance is a solid or liquid that is in itself capable by \_\_\_\_\_ of producing gas at such a temperature and pressure and at such a speed as to cause damage to the surroundings.

- A. Chemical reaction
- B. Single hazard category
- C. Flammable gas means a gas
- D. Ignition distance test
- E. Chemical heat of combustion
- F. None of the Above

76. Pyrotechnic substances are included even?  
A. Flammable components D. Solid or liquid particles  
B. Substances and mixtures E. Exothermic chemical reactions  
C. Foam aerosols F. None of the Above

### 3.1.2 Flammable Gases

77. Which of the following terms means a gas having a flammable range in air at 20°C and a standard pressure of 101.3 kPa?  
A. Flammable gas D. Ignition distance test  
B. Single hazard category E. Chemical heat of combustion  
C. Flammable gas means a gas F. None of the Above

78. Which of the following terms of this hazard class are assigned to one of two hazard categories based on the outcome of the test or calculation method?  
A. Flammable components D. Solid or liquid particles  
B. Substances and mixtures E. Exothermic chemical reactions  
C. Foam aerosols F. None of the Above

### 3.1.3 Flammable Aerosols

79. Aerosols are any gas compressed, liquefied or dissolved under pressure within a non-refillable container made of metal, glass or plastic, with or without?  
A. Aerosols D. Ignition distance test  
B. Single hazard category E. Chemical heat of combustion  
C. A liquid, paste or powder F. None of the Above

80. The container is fitted with a release device allowing the contents to be ejected as solid or liquid particles in suspension in a gas, as a foam, paste or powder or?  
A. Flammable components D. Solid or liquid particles  
B. Substances and mixtures E. Exothermic chemical reactions  
C. In a liquid or gaseous state F. None of the Above

81. Flammable Aerosol if they contain any component classified as flammable according to the \_\_\_\_\_ for flammable liquids, flammable gases, or flammable solids.  
A. GHS criteria D. Ignition distance test  
B. Single hazard category E. Chemical heat of combustion  
C. Flammable gas means a gas F. None of the Above

82. Classification is based on: \_\_\_\_\_ of flammable components;  
A. Flammable components D. Solid or liquid particles  
B. Substances and mixtures E. Exothermic chemical reactions  
C. Concentration F. None of the Above

83. Which of the following terms if combustion (mainly for transport/storage)?  
A. Aerosols D. Ignition distance test  
B. Single hazard category E. Chemical heat  
C. Flammable gas means a gas F. None of the Above

84. Results from the - this missing term - (mainly for worker/consumer);  
A. Flammable components D. Solid or liquid particles  
B. Substances and mixtures E. Foam test  
C. Foam aerosols F. None of the Above

85. Which of the following terms - distance test (spray aerosols) (mainly for worker/consumer);
- A. Aerosol ignition
  - B. Single hazard category
  - C. Flammable gas means a gas
  - D. Ignition
  - E. Chemical heat of combustion
  - F. None of the Above

86. Which of the following terms - spray aerosols (mainly for worker/consumer)?
- A. Flammable components
  - B. Substances and mixtures
  - C. Foam aerosols
  - D. Enclosed space test
  - E. Exothermic chemical reaction
  - F. None of the Above

**Aerosols are considered:**

87. Which of the following terms, if the concentration of the flammable components  $\leq 1\%$  and the heat of combustion is  $< 20$  kJ/g.

- A. Aerosols
- B. Single hazard category
- C. Flammable gas
- D. Extremely flammable
- E. Nonflammable
- F. None of the Above

88. Which of the following terms, if the concentration of the flammable components  $>85\%$  and the heat of combustion is  $\geq 30$  kJ/g to avoid excessive testing.

- A. Aerosols
- B. Single hazard category
- C. Flammable gas
- D. Extremely flammable
- E. Nonflammable
- F. None of the Above

**3.1.4 Oxidizing Gases**

89. Which of the following terms means any gas which may, generally by providing oxygen, cause or contribute to the combustion of other material more than air does?

- A. Aerosols
- B. Single hazard category
- C. Flammable gas
- D. Ignition
- E. Oxidizing gas
- F. None of the Above

90. Which of the following terms of this hazard class are assigned to a single hazard category on the basis that, generally by providing oxygen, they cause or contribute to the combustion of other material more than air does?

- A. Aerosols
- B. Single hazard category
- C. Flammable gas means a gas
- D. Substances and mixtures
- E. Oxidizers
- F. None of the Above

91. Currently, several workplace hazard communication systems cover oxidizers as?

- A. Aerosols
- B. Single hazard category
- C. Flammable gas means a gas
- D. A class of chemicals
- E. Oxidizers
- F. None of the Above

**3.1.5 Gases under Pressure**

92. Which of the following terms under pressure are gases that are contained in a receptacle at a pressure not less than 280 Pa at 20°C or as a refrigerated liquid?

- A. Flammable solids
- B. Substances and mixtures
- C. Gases
- D. Physical state or compressed gases
- E. Substances and mixtures of this hazard class
- F. None of the Above

93. For this group of gases, the following information is required: vapor pressure at 50°C; physical state at 20°C at standard ambient pressure?

- A. Combustion of other material
- B. Readily combustible solids
- C. Basis of the flash point
- D. Explosive, organic peroxides or as oxidizing
- E. Critical temperature
- F. None of the Above

94. Which of the following terms that use the physical state or compressed gases will be a different classification basis for some workplace systems?

- A. Flammable solids
- B. Substances and mixtures
- C. Ignition or pressure
- D. Physical state or compressed gases
- E. Substances and mixtures of this hazard class
- F. None of the Above

### 3.1.6 Flammable Liquids

95. Which of the following terms means a liquid having a flash point of not more than 93°C?

- A. Flammable liquid
- B. Readily combustible solids
- C. Flammable solids
- D. Explosive, organic peroxides or as oxidizing
- E. Critical temperature
- F. None of the Above

### 3.1.7 Flammable Solids

96. Which of the following terms are solids that are readily combustible, or may cause or contribute to fire through friction?

- A. Flammable liquid
- B. Readily combustible solids
- C. Flammable solids
- D. Explosive, organic peroxides or as oxidizing
- E. Critical temperature
- F. None of the Above

97. Which of the following terms are powdered, granular, or pasty substances that are dangerous if they can be easily ignited by brief contact with an ignition source?

- A. Flammable liquid
- B. Readily combustible solids
- C. Flammable solids
- D. Explosive, organic peroxides or as oxidizing
- E. Critical temperature
- F. None of the Above

98. Which of the following terms are assigned to one of two hazard categories on the basis of the outcome of the UN Test N.1?

- A. Flammable solids
- B. Substances and mixtures
- C. Ignition or pressure
- D. Physical state or compressed gases
- E. Substances and mixtures of this hazard class
- F. None of the Above

### 3.1.8 Self-Reactive Substances

99. Which of the following terms are thermally unstable liquids or solids liable to undergo a strongly exothermic thermal decomposition even without participation of oxygen?

- A. Combustion of other material
- B. Readily combustible solids
- C. Basis of the flash point
- D. Explosive, organic peroxides or as oxidizing
- E. Self-reactive substances
- F. None of the Above

### 3.1.12 Substances which on Contact with Water Emit Flammable Gases

100. Substances that, in contact with water, emit flammable gases are solids or liquids that, by interaction with water, are liable to become spontaneously flammable or to give off \_\_\_\_\_ in dangerous quantities.

- A. Flammable solids
- B. Substances and mixtures
- C. Flammable gases
- D. Physical state or compressed gases
- E. Substances and mixtures of this hazard class
- F. None of the Above

### 3.1.13 Oxidizing Liquids

101. Which of the following terms is a liquid which, while in itself not necessarily combustible, may, generally by yielding oxygen, cause or contribute to the combustion of other material?

- A. Combustible liquid
- B. Readily combustible liquid
- C. Basis of the flash point
- D. Explosive liquid
- E. An oxidizing liquid
- F. None of the Above

102. Substances and mixtures of this hazard class are assigned to one of three hazard categories on the basis of test results which measure ignition or pressure rise time compared to?

- A. Flammable solids
- B. Substances and mixtures
- C. Ignition
- D. Physical state or compressed gases
- E. Substances and mixtures of this hazard class
- F. None of the Above

### 3.1.14 Oxidizing Solids

103. An oxidizing solid is a solid which, while in itself not necessarily combustible, may, generally by yielding oxygen, cause or contribute to the?

- A. Combustion of other material
- B. Readily combustible solids
- C. Basis of the flash point
- D. Explosive, organic peroxides or as oxidizing
- E. Critical temperature
- F. None of the Above

104. Substances and mixtures of this hazard class are assigned to one of three hazard categories on the basis of test results which measure mean burning time and?

- A. Flammable solids
- B. Substances and mixtures
- C. Ignition or pressure
- D. Physical state or compressed gases
- E. Substances and mixtures of this hazard class
- F. None of the Above

105. Currently, several workplace hazard communication systems cover \_\_\_\_\_ - as a class of chemicals.

- A. Oxidizers
- B. Readily combustible solids
- C. Flash points
- D. Explosives
- E. Critical temperatures
- F. None of the Above

### 3.1.15 Organic Peroxides

106. An organic peroxide is an organic liquid or solid which contains the \_\_\_\_\_ and may be considered a derivative of hydrogen peroxide.

- A. Substances and mixtures
- B. Harmonized odors
- C. Chemical actions
- D. Structure/activity or structure property
- E. Organic radicals
- F. None of the Above

107. The term also includes organic peroxide formulations, such substances and mixtures may: be liable to \_\_\_\_\_; burn rapidly; be sensitive to impact or friction; react dangerously with other substances.

- A. Melt
- B. Decompose
- C. Corrode
- D. Explosive decomposition
- E. Burn
- F. None of the Above

### 3.1.16 Substances Corrosive to Metal

108. A substance or a mixture that by \_\_\_\_\_ will materially damage, or even destroy, metals is termed 'corrosive to metal'.

- A. Substances and mixtures
- B. Harmonized approach
- C. Chemical action
- D. Structure/activity or structure property
- E. Organic radicals
- F. None of the Above

109. The concern in this case is the protection of metal equipment or installations in case of leakage, not \_\_\_\_\_ between the container/tank and the product. This hazard is not currently covered in all systems.

- A. Not currently covered
- B. Analysis of existing
- C. Corrosive
- D. Health and environmental criteria
- E. Material compatibility
- F. None of the Above

### 3.2 What are the GHS Health and Environmental Hazards?

110. The work at the OECD to develop the GHS criteria included: A thorough analysis of existing classification systems, including the \_\_\_\_\_ its rationale and an explanation of the mode of use;

- A. Not currently covered
- B. Analysis of existing
- C. Corrosive
- D. Health and environmental criteria
- E. Scientific basis for a system and its criteria
- F. None of the Above

111. For some categories, the harmonized approach was easy to develop because the existing systems had similar approaches. In cases where the approach was different, a compromise - this missing term - was developed.

- A. Consensus proposal
- B. Harmonized approach
- C. Harmonized chemical action
- D. Structure/activity or structure property
- E. Harmonizing
- F. None of the Above

112. Which of the following terms were established for substances and mixtures?

- A. Health criteria
- B. Analysis of existing
- C. Corrosive
- D. Health and environmental criteria
- E. Competent Authorities
- F. None of the Above

### 3.2.2 Skin Corrosion

113. Which of the following terms means the production of irreversible damage to the skin following the application of a test substance for up to 4 hours?

- A. Skin corrosion
- B. Harmonized approach
- C. Chemical action
- D. Structure/activity or structure property
- E. Organic radicals
- F. None of the Above

114. Substances and mixtures in this - this missing term - are assigned to a single harmonized corrosion category.

- A. Hazard class
- B. Harmonized approach
- C. Chemical class
- D. Structure/activity or structure property
- E. Organic class
- F. None of the Above

115. For Competent Authorities, such as transport packing groups, needing more than one designation for corrosivity, up to three subcategories are provided within the?

- A. Class
- B. Analysis
- C. Corrosive class
- D. Health and environmental criteria
- E. Corrosive category
- F. None of the Above

116. Several factors should be considered in determining the- this missing term - before testing is initiated: Human experience showing irreversible damage to the skin;

- A. Corrosion potential
- B. Harmonized approach
- C. Chemical potential
- D. Structure/activity or structure property
- E. Organic radicals
- F. None of the Above

117. Structure/activity or structure \_\_\_\_\_ to a substance or mixture already classified as corrosive.

- A. Substances and mixtures
- B. Harmonized approach
- C. Chemical action
- D. Property relationship
- E. Organic relationship
- F. None of the Above

### 3.2.3 Skin Irritation

118. Which of the following terms means the production of reversible damage to the skin following the application of a test substance for up to 4 hours?

- A. Chemical action
- B. Analysis of existing
- C. Corrosive
- D. Health and environmental criteria
- E. Skin irritation
- F. None of the Above

119. Substances and mixtures in this hazard class are assigned to a single irritant category. For those authorities, such as pesticide regulators, wanting more than one designation for skin irritation, an additional?

- A. Substances and mixtures
- B. Harmonized approach
- C. Chemical action
- D. Structure/activity or structure property
- E. Mild irritant category is provided
- F. None of the Above

120. Which of the following terms should be considered in determining the irritation potential before testing is initiated: Human experience or data showing reversible damage to the skin following exposure of up to 4 hours.

- A. Several factors
- B. pH extremes
- C. Contact sensitizer
- D. Substances and mixtures in this hazard class
- E. Hypersensitivity
- F. None of the Above

121. Structure/activity or structure property relationship to a substance or mixture already classified as?

- A. Test substance
- B. An irritant
- C. Skin sensitizer
- D. Pesticide regulators
- E. Serious physical decay
- F. None of the Above

### 3.2.4 Eye Effects

122. Which of the following terms should be considered in determining the serious eye damage or eye irritation potential before testing is initiated?

- A. Several factors
- B. pH extremes
- C. Contact sensitizer
- D. Substances and mixtures in this hazard class
- E. Hypersensitivity
- F. None of the Above



123. Structure/activity or structure property relationship to a - this missing term - already classified; pH extremes like  $\leq 2$  and  $\geq 11.5$  that may produce serious eye damage.

- A. Test substance
- B. pH extreme
- C. Contact sensitizer
- D. Substance or mixture
- E. Hypersensitivity
- F. None of the Above

124. Serious eye damage means the- this missing term - or serious physical decay of vision, following application of a test substance to the front surface of the eye.

- A. Test substance
- B. An irritant
- C. Skin sensitizer
- D. Pesticide regulators
- E. Serious physical decay
- F. None of the Above

125. Which of the following terms in this hazard class are assigned to a single harmonized category?

- A. Several factors
- B. pH extremes
- C. Contact sensitizer
- D. Substances and mixtures
- E. Hypersensitivity
- F. None of the Above

126. Which of the following terms - means changes in the eye following the application of a test substance to the front surface of the eye, which are fully reversible within 21 days of application?

- A. Test substance
- B. An irritant
- C. Skin sensitizer
- D. Eye irritation
- E. Serious physical decay
- F. None of the Above

127. Substances and mixtures in this hazard class are assigned to?

- A. Several factors
- B. pH extremes
- C. Contact sensitizer
- D. Substances and mixtures in this hazard class
- E. A single harmonized hazard category
- F. None of the Above

128. For authorities, such as pesticide regulators, wanting more than one designation for eye irritation, - this missing term -, depending on whether the effects are reversible in 21 or 7 days.

- A. Test substance
- B. An irritant
- C. Skin sensitizer
- D. One of two subcategories can be selected
- E. Serious physical decay
- F. None of the Above

### 3.2.5 Sensitization

129. Which of the following terms means a substance that induces hypersensitivity of the airways following inhalation of the substance?

- A. Several factors
- B. pH extremes
- C. Contact sensitizer
- D. Respiratory sensitizer
- E. Hypersensitivity
- F. None of the Above

130. Substances and mixtures in this hazard class are assigned to?

- A. Several factors
- B. pH extremes
- C. Contact sensitizer
- D. One hazard category
- E. Hypersensitivity
- F. None of the Above

131. Skin sensitizer means a substance that will induce an allergic response following skin contact. The definition for "skin sensitizer" is equivalent to?

- A. Contact sensitizer
- B. An irritant
- C. Skin sensitizer
- D. Reproductive and developmental effects
- E. Serious physical decay
- F. None of the Above

132. Substances and mixtures in this hazard class are assigned to?

- A. One hazard category
- B. An irritant
- C. Skin sensitizer
- D. Reproductive and developmental effects
- E. Serious physical decay
- F. None of the Above

133. Consideration should be given to classifying substances that cause immunological contact urticaria as?

- A. Several factors
- B. pH extremes
- C. Contact sensitizer
- D. Substances and mixtures in this hazard class
- E. Hypersensitivity
- F. None of the Above

### 3.2.6 Germ Cell Mutagenicity

134. Which of the following terms means an agent giving rise to an increased occurrence of mutations in populations of cells and/or organisms?

- A. Mutagen
- B. A single exposure mutagen
- C. Known or presumed mutagen
- D. Only in animal studies mutagen
- E. Reproductive and developmental effects
- F. None of the Above

### 3.2.7 Carcinogenicity

135. Which of the following terms means a chemical substance or a mixture of chemical substances which induce cancer or increase its incidence?

- A. Death following aspiration
- B. Carcinogen
- C. The basis of viscosity
- D. Reproductive and developmental effects
- E. Non-lethal target organ/systemic toxicity class (TOST)
- F. None of the Above

136. Which of the following terms in this hazard class are assigned to one of two hazard categories?

- A. The harmonized criteria
- B. A single exposure
- C. Known or presumed
- D. Reproductive and developmental effects
- E. Substances and mixtures
- F. None of the Above

### 3.2.8 Reproductive Toxicity

137. Which of the following terms includes adverse effects on sexual function and fertility in adult males and females, as well as developmental toxicity in offspring?

- A. Death
- B. Reproductive toxicity
- C. The basis of viscosity
- D. Reproductive and developmental effects
- E. Non-lethal target organ/systemic toxicity class (TOST)
- F. None of the Above

138. Substances and mixtures with reproductive and/or developmental effects are assigned to one of two hazard categories, 'known or presumed' and?

- A. The harmonized criteria
- B. A single exposure
- C. Suspected
- D. Only in animal studies
- E. Reproductive and developmental effects
- F. None of the Above

139. Category 1 has two subcategories for reproductive and?
- A. Death
  - B. Developmental effects
  - C. The basis of viscosity
  - D. Reproductive and developmental effects
  - E. Non-lethal target organ/systemic toxicity class (TOST)
  - F. None of the Above

### 3.2.9 Target Organ Systemic Toxicity (TOST): Single Exposure & Repeated Exposure

140. Some existing systems distinguish between single and repeat exposure for these effects and?

- A. The harmonized criteria
- B. Some do not
- C. Known or presumed
- D. Only in animal studies
- E. Non-lethal target organ/systemic toxicity class (TOST)
- F. None of the Above

141. Which of the following terms not otherwise specifically included in the GHS, that can impair function, both reversible and irreversible, immediate and/or delayed are included in the non-lethal target organ/systemic toxicity class?

- A. Death
- B. All significant health effects
- C. The basis of viscosity
- D. Reproductive and developmental effects
- E. Non-lethal target organ/systemic toxicity class (TOST)
- F. None of the Above

142. Narcotic effects and - this missing term - are considered to be target organ systemic effects following a single exposure.

- A. The harmonized criteria
- B. A single exposure
- C. Known or presumed
- D. Respiratory tract irritation
- E. Trachea and lower respiratory system
- F. None of the Above

### 3.2.10 Aspiration Hazard

143. Which of the following terms includes severe acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death following aspiration?

- A. Death following aspiration
- B. An aspiration hazard in humans
- C. Aspiration toxicity
- D. Reproductive and developmental effects
- E. Non-lethal target organ/systemic toxicity class (TOST)
- F. None of the Above

144. Which of the following terms is the entry of a liquid or solid directly through the oral or nasal cavity, or indirectly from vomiting, into the trachea and lower respiratory system?

- A. Death following aspiration
- B. An aspiration hazard in humans
- C. Aspiration
- D. Reproductive and developmental effects
- E. Non-lethal target organ/systemic toxicity class
- F. None of the Above

145. Some hydrocarbons and certain chlorinated hydrocarbons have been shown to pose an - this missing term - in humans.

- A. Death following aspiration
- B. Aspiration hazard in humans
- C. Aspiration hazard
- D. Reproductive and developmental effects
- E. Non-lethal target organ/systemic toxicity class
- F. None of the Above

146. Primary alcohols, and ketones have been shown to pose an \_\_\_\_\_ only in animal studies.

- A. Death following aspiration
- B. Aspiration hazard in humans
- C. Aspiration hazard
- D. Reproductive and developmental effects
- E. Non-lethal target organ/systemic toxicity class
- F. None of the Above

147. Substances and mixtures of - this missing term - are assigned to one of two hazard categories this hazard class on the basis of viscosity.

- A. This hazard class
- B. An aspiration hazard in humans
- C. The basis of viscosity
- D. Reproductive and developmental effects
- E. Non-lethal target organ/systemic toxicity class
- F. None of the Above

### 3.3 Environmental Hazards 3.3.1 Hazardous to the Aquatic Environment

148. The harmonized criteria are \_\_\_\_\_ for packaged goods in both supply and use in multi-modal transport schemes.

- A. Considered suitable
- B. A single exposure
- C. Known or presumed
- D. Only in animal studies
- E. Complex substance
- F. None of the Above

149. Which of the following terms of it may be used for bulk land transport and bulk marine transport under MARPOL insofar as this uses aquatic toxicity?

- A. The harmonized criteria
- B. A single exposure
- C. Known or presumed
- D. Only in animal studies
- E. Complex substance
- F. None of the Above

#### 3.3.1.1 Acute Aquatic Toxicity

150. Which of the following terms means the intrinsic property of a material to cause injury to an aquatic organism in a short-term exposure?

- A. Acute aquatic toxicity
- B. An aspiration hazard in humans
- C. Complex substance
- D. Reproductive and developmental effects
- E. Chronic aquatic toxicity
- F. None of the Above

151. Substances and mixtures of this hazard class are assigned to one of three toxicity categories based on acute toxicity data: LC<sub>50</sub> or EC<sub>50</sub> or ErC<sub>50</sub>. In some regulatory systems these acute toxicity categories may be subdivided or?

- A. The harmonized criteria
- B. A single exposure
- C. Known or presumed
- D. Degradation/bioaccumulation
- E. Extended for certain sectors
- F. None of the Above

#### 3.3.1.2 Chronic Aquatic Toxicity

152. Which of the following terms means the potential or actual properties of a material to cause adverse effects to aquatic organisms during exposures that are determined in relation to the lifecycle of the organism?

- A. Acute aquatic toxicity
- B. An aspiration hazard in humans
- C. Complex substance
- D. Reproductive and developmental effects
- E. Chronic aquatic toxicity
- F. None of the Above

153. Which of the following terms are assigned to one of four toxicity categories on the basis of acute data and environmental fate data: LC<sub>50</sub> or EC<sub>50</sub> or ErC<sub>50</sub>?

- A. Cutoff value/concentration limits
- B. Potential or actual properties
- C. Hazards
- D. Substances and mixtures in this hazard class
- E. Two or more substances
- F. None of the Above

154. While experimentally derived test data are preferred, where no experimental data are available, validated Quantitative Structure Activity Relationships for aquatic toxicity and log KOW may be used in the?

- A. GHS
- B. Classification process
- C. Potential or actual properties
- D. Complex substance
- E. Stability of the substance or changing its composition
- F. None of the Above

### 3.4 What is the GHS approach to classifying mixtures?

155. For consistency and understanding - this missing term - the GHS defines certain terms.

- A. Cutoff value/concentration limits
- B. Provisions for classifying mixtures
- C. Hazards
- D. Degradation/bioaccumulation
- E. Two or more substances
- F. None of the Above

156. Substance: Chemical elements and their compounds in the natural state or obtained by any production process, including any additive necessary to preserve the stability of the product and any impurities deriving from the process used, but excluding any solvent which may be separated without affecting the \_\_\_\_\_ or changing its composition.

- A. GHS
- B. No experimental data
- C. Potential or actual properties
- D. Complex substance
- E. Stability of the substance
- F. None of the Above

157. Mixture: Mixtures or solutions composed of \_\_\_\_\_ in which they do not react.

- A. Cutoff value/concentration limits
- B. Potential or actual properties
- C. Hazards
- D. Degradation/bioaccumulation
- E. Two or more substances
- F. None of the Above

158. Alloy: An alloy is a metallic material, - this missing term -, consisting of two or more elements so combined that they cannot be readily separated by mechanical means.

- A. Homogeneous on a macroscopic scale
- B. Hazardous properties of chemicals
- C. Potential or actual properties
- D. Complex substance
- E. Stability of the substance composition
- F. None of the Above

159. Where impurities, additives or individual constituents of a substance or mixture have been identified and are themselves classified, they should be taken into account during classification if they exceed the cutoff value/concentration limit for a?

- A. Cutoff value/concentration limit
- B. Given hazard class
- C. Hazards
- D. Degradation/bioaccumulation
- E. Hazardous properties of chemicals
- F. None of the Above

### 3.5 What are bridging principles?

160. Which of the following terms are an important concept in the GHS for classifying untested mixtures?

- A. GHS
- B. Bridging principles
- C. Potential or actual properties
- D. Complex substance
- E. Stability of the substance or changing its composition
- F. None of the Above

161. Dilution: If a mixture is diluted with a diluent that has an equivalent or lower toxicity, then the hazards of the new mixture are assumed to?

- A. Cutoff value/concentration limit
- B. GHS
- C. Hazards
- D. Be equivalent to the original
- E. Two or more substances
- F. None of the Above

162. Batching: If a batch of a complex substance is produced under - this missing term - then the hazards of the new batch are assumed to be equivalent to the previous batches.

- A. GHS
- B. Degradation/bioaccumulation
- C. Potential or actual properties
- D. Controlled process
- E. Stability of the substance or changing its composition
- F. None of the Above

163. Concentration of Highly Toxic Mixtures: If a mixture is severely hazardous, then a concentrated mixture is also assumed to?

- A. Cutoff value/concentration limit
- B. Be severely hazardous
- C. Hazards
- D. Degradation/bioaccumulation
- E. Two or more substances
- F. None of the Above

164. Interpolation within One Toxic Category: Mixtures having component concentrations within a range where the hazards are known are assumed to have those?

- A. GHS
- B. Known hazards
- C. Potential or actual properties
- D. Complex substance
- E. Stability of the substance or changing its composition
- F. None of the Above

165. Substantially Similar Mixtures: Slight changes in the concentrations of components are not expected to change the hazards of a mixture and substitutions involving toxicologically similar components are not expected to change the?

- A. Cutoff value/concentration limit
- B. Hazards of a mixture
- C. Hazards
- D. Degradation/bioaccumulation
- E. Two or more substances
- F. None of the Above

166. Aerosols: An aerosol form of a mixture is assumed to have the same \_\_\_\_\_ as the tested, non-aerosolized form of the mixture unless the propellant affects the hazards upon spraying.

- A. Cutoff value/concentration limit
- B. GHS
- C. Hazards
- D. Degradation/bioaccumulation
- E. Two or more substances
- F. None of the Above

167. All bridging principles do not apply to every health and environmental endpoint. Consult each endpoint to determine which - this missing term - apply.

- A. Bridging principles
- B. Environmental hazards
- C. Chemical products
- D. Safety Data Sheets
- E. Hazardous properties of chemicals
- F. None of the Above

168. When the bridging principles do not apply or - this missing term -, the health and environmental hazards of mixtures are estimated based on component information.

- A. GHS
- B. Environmental hazards
- C. Chemical products
- D. Safety Data Sheets
- E. Hazardous properties of chemicals
- F. None of the Above

#### 4.0 Hazard Communication

169. As in existing systems, labels and - this missing term - are the main tools for chemical hazard communication.

- A. GHS
- B. Environmental hazards
- C. Chemical products
- D. Safety Data Sheets
- E. Hazardous properties of chemicals
- F. None of the Above

170. Which of the following terms is to identify the intrinsic hazards found in chemical substances and mixtures, and to convey information about these hazards?

- A. GHS
- B. Environmental hazards
- C. Chemical products
- D. The goal of the GHS
- E. Hazardous properties of chemicals
- F. None of the Above

171. The international mandate for the GHS included the development of a harmonized hazard communication system, including labeling, Safety Data Sheets and easily understandable symbols, based on the classification criteria developed for the?

- A. GHS
- B. Environmental hazards
- C. Chemical products
- D. Safety Data Sheets
- E. Hazardous properties of chemicals
- F. None of the Above

172. Early in the process of developing \_\_\_\_\_ several significant issues were recognized.

- A. GHS communication tools
- B. Environmental hazards
- C. Chemical products
- D. Safety Data Sheets
- E. Hazardous properties of chemicals
- F. None of the Above

173. One of the most important was comprehensibility of the information provided. After all, the aim of the system is to present hazard information in a manner that the intended audience can easily understand and that will thus minimize the possibility of adverse effects resulting from?

- A. Exposure
- B. Environmental hazards
- C. Chemical products
- D. Safety Data Sheets
- E. Hazardous properties of chemicals
- F. None of the Above

174. The GHS identifies some guiding principles to assist in this process: Information should be conveyed in more than one way, e.g.?

- A. Text and symbols
- B. Environmental hazards
- C. Chemical products
- D. Safety Data Sheets
- E. Hazardous properties of chemicals
- F. None of the Above

175. The comprehensibility of the components of the system should take account of existing studies and literature as well as any evidence gained from?

- A. GHS
- B. Environmental hazards
- C. Testing
- D. Safety Data Sheets
- E. Hazardous properties of chemicals
- F. None of the Above

176. The phrases used to indicate degree of hazard should be consistent across the health, physical and?

- A. GHS
- B. Environmental hazards
- C. Chemical products
- D. Safety Data Sheets
- E. Hazardous properties of chemicals
- F. None of the Above

## 4.2 Labels

### 4.2.1 What does a label look like?

177. Existing systems have labels that look different for the?

- A. GHS
- B. Environmental hazards
- C. Chemical products
- D. Safety Data Sheets
- E. Hazardous properties of chemicals
- F. None of the Above

178. Different agencies regulate the workplace, consumers, agricultural chemicals and transport- this missing term - for these sectors/target audiences vary both in the U.S. and globally.

- A. Labels
- B. Environmental hazards
- C. Chemical products
- D. Safety Data Sheets
- E. Hazardous properties of chemicals
- F. None of the Above

179. For hazardous products being transported, outer containers have required label elements, product identifier and hazard symbols \_\_\_\_\_ are in addition to workplace or end use label requirements.

- A. Transportation requirements
- B. Environmental hazards
- C. Chemical products
- D. Safety Data Sheets
- E. Hazardous properties of chemicals
- F. None of the Above

### **Agricultural Chemicals and Pesticides**

180. A pesticide product with the same hazards as ToxiFlam would have a label developed using?

- A. Pictogram
- B. FIFRA requirements
- C. Hazards
- D. Purple Book
- E. GHS hazard class and category
- F. None of the Above

181. Which of the following terms has requirements for product identity, chemical identity, signal word, hazard statements, and precautionary measures including first aid?

- A. GHS pictogram
- B. GHS symbols
- C. GHS hazards
- D. FIFRA
- E. Hazard statements
- F. None of the Above

### **4.3 What are the GHS label elements?**

182. Some \_\_\_\_\_ have been standardized (identical with no variation) and are directly related to the endpoints and hazard level.

- A. Pictogram
- B. GHS
- C. Hazards
- D. GHS label elements
- E. GHS hazard class and category
- F. None of the Above

The standardized label elements included in the GHS are:

183. Symbols: Convey health, physical and environmental hazard information, assigned to a?

- A. GHS pictogram
- B. GHS symbols
- C. GHS hazards
- D. GHS hazard class and category
- E. Hazard statements
- F. None of the Above

184. Signal Words: "Danger" or "Warning" are used to emphasize hazards and indicate the relative level of severity of the hazard, assigned to a?

- A. Pictogram
- B. GHS
- C. Hazards
- D. Purple Book
- E. GHS hazard class and category
- F. None of the Above

185. Hazard Statements: Standard phrases assigned - this missing term - and category that describe the nature of the hazard.

- A. GHS pictogram
- B. GHS symbols
- C. GHS hazards
- D. Hazard class
- E. Hazard statements
- F. None of the Above



186. The symbols, signal words, and hazard statements have all been standardized and assigned to specific hazard categories and classes, as appropriate. This approach makes it easier for countries to implement the system and should make it easier for companies to comply with regulations based on the?

- A. Pictogram D. Purple Book
- B. GHS E. GHS hazard class and category
- C. Hazards F. None of the Above

187. The use of symbols, signal words or hazard statements other than those that have been assigned to each - this missing term - would be contrary to harmonization.

- A. GHS pictogram D. FIFRA
- B. GHS symbols E. Hazard statements
- C. GHS hazards F. None of the Above

188. The Section numbers refer to the sections in \_\_\_\_\_ or "Purple Book".

- A. Pictogram D. GHS Document
- B. GHS E. GHS hazard class and category
- C. Hazards F. None of the Above

#### 4.3.1 Symbols/Pictograms

189. The GHS symbols have been incorporated into pictograms for use on the?

- A. GHS pictogram D. GHS label
- B. GHS symbols E. Hazard statements
- C. GHS hazards F. None of the Above

190. For transport, \_\_\_\_\_ will have the background, symbol and colors currently used in the UN Recommendations on the Transport of Dangerous Goods, Model Regulations.

- A. Pictograms D. Purple Book
- B. GHS E. GHS hazard class and category
- C. Hazards F. None of the Above

191. A black frame may be used for shipments within one country. Where a transport pictogram appears, the- this missing term - for the same hazard should not appear.

- A. GHS pictograms D. FIFRA
- B. GHS symbols E. Hazard statements
- C. GHS hazards F. None of the Above

#### 4.3.2 Signal Words

192. The signal word indicates the relative degree of?

- A. Pictogram D. Severity a hazard
- B. GHS E. GHS hazard class and category
- C. Hazards F. None of the Above

193. "Danger" for the more?

- A. GHS pictogram D. Severe hazards
- B. GHS symbols E. Hazard statements
- C. GHS hazards F. None of the Above

194. "Warning" for the?
- A. Pictogram
  - B. GHS
  - C. Hazards
  - D. Less severe hazards
  - E. GHS hazard class and category
  - F. None of the Above

195. Which of the following terms are standardized and assigned to the hazard categories within endpoints?
- A. GHS pictogram
  - B. GHS symbols
  - C. GHS hazards
  - D. Signal words
  - E. Hazard statements
  - F. None of the Above

#### 4.3.3 Hazard Statements

196. An appropriate statement for each - this missing term - should be included on the label for products possessing more than one hazard.
- A. GHS pictogram
  - B. GHS symbols
  - C. GHS hazard
  - D. Signal words
  - E. Hazard statements
  - F. None of the Above

#### Other GHS label elements include:

197. Precautionary Statements and \_\_\_\_\_ -: Measures to minimize or prevent adverse effects.
- A. Pictograms
  - B. GHS symbols
  - C. GHS hazards
  - D. Signal words
  - E. Hazard statements
  - F. None of the Above

198. Product Identifier: Name or number used for a hazardous product on a label or in the?
- A. GHS pictogram
  - B. GHS symbols
  - C. GHS hazards
  - D. SDS
  - E. Hazard statements
  - F. None of the Above

199. Supplier identification: The name, address and telephone number should be provided on?
- A. The label
  - B. Annex 3
  - C. GHS label
  - D. Prevent adverse effects
  - E. Precautionary information
  - F. None of the Above

200. Supplemental information?
- A. Name or number
  - B. Annex 3
  - C. The label
  - D. Non-harmonized information
  - E. UN proper shipping name
  - F. None of the Above

#### 4.3.4 Precautionary Statements and Pictograms

201. First aid is included in?
- A. The label
  - B. Annex 3
  - C. GHS label
  - D. Prevent adverse effects
  - E. Precautionary information
  - F. None of the Above

202. Which of the following terms includes four types of precautionary statements covering: prevention, response in cases of accidental spillage or exposure, storage, and disposal?
- A. Name or numbers
  - B. Annex 3
  - C. The label
  - D. Non-harmonized information
  - E. UN proper shipping name
  - F. None of the Above

203. The precautionary statements have been linked to each- this missing term - and type of hazard. The goal is to promote consistent use of precautionary statements.

- A. The label
- B. Annex 3
- C. GHS label
- D. GHS hazard statement
- E. Precautionary information
- F. None of the Above

204. Which of the following terms is guidance and is expected to be further refined and developed over time.

- A. The label
- B. Annex 3
- C. GHS label
- D. Prevent adverse effects
- E. Precautionary information
- F. None of the Above

#### **4.3.5 Product Identifier (Ingredient Disclosure)**

205. A product identifier should be used on a GHS label and it should match the product identifier used on the?

- A. Name or number
- B. Annex 3
- C. The label
- D. Harmonized information
- E. SDS
- F. None of the Above

206. The GHS label for a substance should include the - this missing term - of the substance (name as determined by IUPAC, ISO, CAS or technical name).

- A. The label
- B. Annex 3
- C. GHS label
- D. Prevent adverse effects
- E. Chemical identity
- F. None of the Above

207. The label should include the chemical identities of all ingredients that contribute to acute toxicity, skin corrosion or serious eye damage, germ cell mutagenicity, carcinogenicity, reproductive toxicity, skin or respiratory sensitization, or Target Organ Systemic Toxicity, when these hazards appear on?

- A. Name or number
- B. Annex 3
- C. The label
- D. Non-harmonized information
- E. UN proper shipping name
- F. None of the Above

208. Where a product is supplied exclusively for workplace use, the Competent Authority may give suppliers discretion to include chemical identities on - this missing term - in lieu of including them on labels.

- A. Name or number
- B. Annex 3
- C. The label
- D. Harmonized information
- E. SDS
- F. None of the Above

209. Which of the following terms rules for confidential business information (CBI) take priority over the rules for product identification?

- A. The label
- B. Annex 3
- C. GHS label
- D. Prevent adverse effects
- E. Precautionary information
- F. None of the Above

#### 4.3.6 Supplier Identification

210. The name, address and telephone number of the manufacturer or supplier of the product should be provided on?

- A. The label
- B. Annex 3
- C. GHS label
- D. Prevent adverse effects
- E. Precautionary information
- F. None of the Above

#### 4.3.7 Supplemental Information

211. Supplemental label information is non-harmonized information on the container of a hazardous product that is not required or specified under the?

- A. Competent Authority
- B. Corrosive symbol
- C. Supplemental information
- D. Actual label format or layout
- E. GHS
- F. None of the Above

212. Which of the following terms provides guidance to ensure that supplemental information does not lead to wide variation in information or undermine the GHS information?

- A. Hazard statement
- B. Corrosive symbol
- C. GHS hazard pictograms
- D. Health hazard symbol
- E. GHS
- F. None of the Above

213. Supplemental information may be used to provide further detail that does not contradict or cast doubt on the validity of the standardized hazard information. It also may be used to provide information about hazards not yet incorporated into the?

- A. Competent Authority
- B. Corrosive symbol
- C. Supplemental information
- D. Actual label format or layout
- E. GHS
- F. None of the Above

214. The labeler should have the option of providing supplementary information related to the hazard, such as physical state or route of exposure, with the?

- A. Hazard class
- B. Hazard statement
- C. GHS hazard pictograms
- D. Health hazard symbol
- E. GHS label
- F. None of the Above

#### 4.4 How are multiple hazards handled on labels?

215. Where a substance or mixture presents more than one GHS hazard, there is a \_\_\_\_\_ for pictograms and signal words.

- A. Hazard statement
- B. Corrosive symbol
- C. Supplemental information
- D. Actual label format or layout
- E. GHS precedence scheme
- F. None of the Above

216. If the skull and crossbones applies, - this missing term - should not appear;

- A. Hazard statement
- B. Exclamation mark
- C. GHS hazard pictogram
- D. Health hazard symbol
- E. GHS label
- F. None of the Above

217. If the corrosive symbol applies, - this missing term - should not appear where it is used for skin or eye irritation;

- A. Exclamation mark
- B. Corrosive symbol
- C. Supplemental information
- D. Actual label format or layout
- E. GHS precedence scheme
- F. None of the Above