**Safety Data Sheets - Final Assessment**

**Participant Guide**

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|  | Instructions |
|  | The purpose of this assessment is to determie your ability to locate a SDS, extract information from it and interpret that information for a practical application.  **BEFORE BEGINNING THIS ASSESSMENT:**  **Locate and download at least one SDS for Boron Trifluoride. You will need this SDS to answer some of the questions in this assessment.** |
|  | Below are the assessment questions. |

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|  | Who is responsible for creating and supplying chemical SDSs?   1. OSHA 2. NFPA 3. Chemical Manufacturer 4. Chemical user |
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|  | Which of the following sections is NOT required by OSHA to be included in a SDS? |
|  | 1. Exposure Controls 2. Handling and Storage 3. Fire Fighting Measures 4. Disposal Considerations |

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|  | Which section of the SDS deals with the information concerning the outcomes of inhalation, skin/eye contact, and ingestion?   1. First-aid measures 2. Hazard(s) identification 3. Accidental Release measures 4. Physical and Chemical Properties |

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|  | Which section of the SDS deals with the information related to fire hazard, extinguishing media and Flashpoint?   1. Physical and Chemical Properties 2. Accidental Release Measures 3. Fire and Explosion Data 4. Exposure Controls |

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|  | For a hazardous ingredient to be listed on the SDS, it must comprise what percent of the chemical?   1. 0.1% or more 2. 1.0% or more 3. 5.0% or more 4. 10% or more |

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|  | Which of the following indicates the toxicity of a chemical? |
|  | 1. A vapor density of 4.6 2. Incompatible with water 3. Upper explosion limit of 16.3% 4. TLV of 25 ppm |

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|  | Which section of a SDS indicates which "conditions / materials to avoid"?   1. Toxicological Information 2. Physical and Chemical Properties 3. Exposure Controls 4. Stability and Reactivity Data |

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|  | Refer to the SDS for Boron Trifluoride. List three (3) physical characteristics of BCl***3***.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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|  | Refer to the SDS for Boron Trifluoride. This chemical has a health hazard rating of 4. List the characteristic(s) of BCl***3*** that would substantiate this rating?  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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|  | Refer to the SDS for Boron Trifluoride. You enter the service aisle and notice that your co-worker has passed out. Due to the circumstances, you can safely assume it is due to inhalation of boron trifluoride gas. What would be a correct response procedure? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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|  | Refer to the SDS for Boron Trifluoride.  Scenario: You are a member of the emergency response team for spills and leaks. What would be a correct procedure when responding to an accidental release of boron trifluoride?  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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|  | Refer to the SDS for Boron Trifluoride. Which of the following BEST describes the reactivity properties of Boron Trifluoride?   1. Stable under normal conditions, but incompatible with water and some metals. 2. Reacts violently with water and heat 3. Unstable under most conditions. Avoid water. Corrodes some metals. 4. Stable under most conditions, but reacts violently when exposed to wet metals. |

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