

# HOW TO READ A SAFETY DATA SHEET

## OSHA Brief:

Requires that the chemical manufacturer, distributor, or importer provide Safety Data Sheets (SDS) for hazardous chemicals or materials. The information contained in the SDS is largely the same as the MSDS, except that the SDS are prepared in a prescribed order (Section 14). The SDS also provides guidance to help workers who handle hazardous chemicals to become familiar with the format and understand the contents of the SDS.

The SDS must contain information on the following: chemical, physical, health, and environmental health hazards; protective measures; and safety precautions for handling, storing, and transporting the chemical. The information contained in the SDS is organized in a prescribed order (Section 14). The SDS also provides guidance to help workers who handle hazardous chemicals to become familiar with the format and understand the contents of the SDS.

The SDS must also contain Sections 12 through 15, to be consistent with the LHA (Labels, Packaging, System of Classification and Labeling of Chemicals (LHA)), that OSHA will use to conduct all of these sections. Sections 12 through 15, to be consistent with the LHA (Labels, Packaging, System of Classification and Labeling of Chemicals (LHA)), that OSHA will use to conduct all of these sections. Sections 12 through 15, to be consistent with the LHA (Labels, Packaging, System of Classification and Labeling of Chemicals (LHA)), that OSHA will use to conduct all of these sections.

## Section 1: Identification

This section identifies the chemical on the SDS as well as the recommended uses. It also provides the recommended container contents of:

- Product identifier used on the label and any other names or synonyms by which the substance is known.
- Name, address, phone number of the manufacturer, distributor, or other responsible party, and emergency phone number.
- Recommended use of the chemical (e.g., a fertilizer) and any restrictions on use (e.g., do not apply to animals) and any use restrictions (e.g., do not apply to animals).



## Section 2: Hazard(s) Identification

This section identifies the hazard(s) of the chemical and appropriate warning labels that must be used with these hazards. The hazard and appropriate warning labels are:

- The hazard classification of the chemical (e.g., Toxic, Irritant, Corrosive).
- Signal word.
- Hazard statements.
- Pictograms or hazard symbols may be presented as graphical reproductions of the symbols in black and white or as a description of the name of the symbol (e.g., skull and crossbones, flame).
- Precautionary statements.
- Description of any hazards not otherwise classified.



## Section 3: Ingredients Information

This section identifies the chemical composition of the chemical on the SDS, including impurities and stabilizing additives. This section includes information on substances, mixtures, and all chemicals where a trade secret is claimed. The required information is:

- Substances.
- Chemical name.
- Chemical Abstracts Service (CAS) number and other unique identifiers.
- Impurities and stabilizing additives, which are themselves classified and which are included in the hazard classification of the chemical.
- Mixtures.
- Some information is required for mixtures:
- The total concentration (i.e., total percentage) of all ingredients which are classified as health hazards and are present above their cut-off concentration levels.
- Product is highly volatile or highly reactive.
- The concentration (weight percent) of each ingredient must be specified except in a concentration range may be used in the following situations:
  - When the concentration is not known.
  - When the concentration is not known.
- The SDS is used for a group of substantially similar mixtures.
- Chemicals which are highly reactive.
- A statement that the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret is required.



## Section 4: First-Aid Measures

This section describes the most cases that should be given by personnel responding to an individual who has been exposed to the chemical. The required information includes:

- Most important symptoms or effects.
- First-aid measures.
- Medical conditions for which special treatment and special precautions are advised, when applicable.

## Section 5: Fire-Fighting Measures

This section provides recommendations for fighting fires caused by the chemical. The required information includes:

- Recommended extinguishing media.
- Recommended fire-fighting equipment.
- Special fire-fighting procedures.
- Special fire-fighting equipment.

## Section 6: Accidental Release Measures

This section provides recommendations for cleaning up spills and leaks, or releases, that occur. The required information includes:

- Personal protective equipment (PPE) that should be worn by personnel cleaning up spills and leaks.
- Emergency procedures, including instructions for a spill or leak.
- Special fire-fighting equipment.
- Special fire-fighting equipment.

## Section 7: Handling and Storage

This section provides guidance on the safe handling practices and safe storage of chemicals. The required information includes:

- Recommended handling and storage practices.
- Special handling and storage procedures.
- Special handling and storage procedures.

## Section 8: Exposure Controls/Personal Protection

This section provides information on the recommended exposure control and personal protective measures that can be used to reduce exposure to the chemical. The required information includes:

- Recommended exposure control measures.
- Recommended personal protective equipment (PPE).
- Recommended personal protective equipment (PPE).



## Section 9: Physical/Chemical Properties

This section identifies physical and chemical properties associated with the chemical. The required information includes:

- Appearance (physical state, color, etc.).
- Odor.
- Boiling point.
- Melting point.
- Freezing point.
- Flash point.
- Autoignition temperature.
- Decomposition temperature.
- Stability.



## Section 10: Stability and Reactivity

This section describes the reactivity hazards of the chemical and the chemical stability information. This section is broken into three parts: reactivity, chemical stability, and other reactivity information.

- Reactivity.
- Chemical stability.
- Other reactivity information.

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- Reactivity.
- Chemical stability.
- Other reactivity information.

## Section 11: Toxicological Information

This section provides information on the toxicological effects of the chemical. The required information includes:

- Acute toxicity.
- Subacute toxicity.
- Subchronic toxicity.
- Chronic toxicity.



## Section 12: Ecological Information

This section provides information on the ecological effects of the chemical. The required information includes:

- Ecotoxicity.
- Environmental fate.
- Other information.



## Section 13: Disposal Considerations

This section provides information on the disposal of the chemical. The required information includes:

- Disposal methods.
- Other information.



## Section 14: Transport Information

This section provides information on the transport of the chemical. The required information includes:

- Transport hazard class.
- Transport hazard label.
- Transport hazard code.

## Section 15: Regulatory Information

This section identifies the safety, health, and environmental regulations specific to the chemical. The required information includes:

- Regulatory information.

## Section 16: Other Information

This section provides information on other information that may be relevant to the chemical. The required information includes:

- Other information.

# Osha Msds Requirements 2013

**JS Bruner**

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**Osha Msds Requirements 2013:**

This book delves into Osha Msds Requirements 2013. Osha Msds Requirements 2013 is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Osha Msds Requirements 2013, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Osha Msds Requirements 2013
- Chapter 2: Essential Elements of Osha Msds Requirements 2013
- Chapter 3: Osha Msds Requirements 2013 in Everyday Life
- Chapter 4: Osha Msds Requirements 2013 in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Osha Msds Requirements 2013. The first chapter will explore what Osha Msds Requirements 2013 is, why Osha Msds Requirements 2013 is vital, and how to effectively learn about Osha Msds Requirements 2013.
3. In chapter 2, this book will delve into the foundational concepts of Osha Msds Requirements 2013. This chapter will elucidate the essential principles that need to be understood to grasp Osha Msds Requirements 2013 in its entirety.
4. In chapter 3, the author will examine the practical applications of Osha Msds Requirements 2013 in daily life. The third chapter will showcase real-world examples of how Osha Msds Requirements 2013 can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Osha Msds Requirements 2013 in specific contexts. This chapter will explore how Osha Msds Requirements 2013 is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Osha Msds Requirements 2013. The final chapter will summarize the key points that have been discussed throughout the book.

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## **Table of Contents Osha Msds Requirements 2013**

1. Understanding the eBook Osha Msds Requirements 2013
  - The Rise of Digital Reading Osha Msds Requirements 2013
  - Advantages of eBooks Over Traditional Books
2. Identifying Osha Msds Requirements 2013
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Osha Msds Requirements 2013
  - User-Friendly Interface
4. Exploring eBook Recommendations from Osha Msds Requirements 2013
  - Personalized Recommendations
  - Osha Msds Requirements 2013 User Reviews and Ratings
  - Osha Msds Requirements 2013 and Bestseller Lists
5. Accessing Osha Msds Requirements 2013 Free and Paid eBooks
  - Osha Msds Requirements 2013 Public Domain eBooks
  - Osha Msds Requirements 2013 eBook Subscription Services
  - Osha Msds Requirements 2013 Budget-Friendly Options
6. Navigating Osha Msds Requirements 2013 eBook Formats
  - ePub, PDF, MOBI, and More
  - Osha Msds Requirements 2013 Compatibility with Devices
  - Osha Msds Requirements 2013 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Osha Msds Requirements 2013
  - Highlighting and Note-Taking Osha Msds Requirements 2013
  - Interactive Elements Osha Msds Requirements 2013
8. Staying Engaged with Osha Msds Requirements 2013

- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Osha Msds Requirements 2013
9. Balancing eBooks and Physical Books Osha Msds Requirements 2013
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Osha Msds Requirements 2013
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Osha Msds Requirements 2013
    - Setting Reading Goals Osha Msds Requirements 2013
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Osha Msds Requirements 2013
    - Fact-Checking eBook Content of Osha Msds Requirements 2013
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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