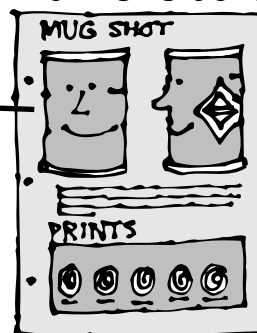


Material Safety Data Sheets: Your Lifeline (Sections I-IV)

This hazard communication tool gives details on chemical and physical dangers, safety procedures, and emergency response procedures. Your employer must have one for every chemical and hazardous product in your workplace. It provides additional information which cannot easily be put on the label.

| | | | |
|---|---|---|---------------------------------------|
| Material Safety Data Sheet May be used to comply with OSHA's Hazard Communication Standard: 29 CFR 1910.1200. Standard must be consulted for specific requirements. | | U.S. Department of Labor Occupational Safety and Health Administration (Non-Mandatory Form) Form Approved OMB No. 1218-0072 | |
| Identity (As Used on Label and List) | | Note: Blank spaces are not permitted. If any item is not applicable, or no data is available, the space must be marked to indicate that. | |
| Section I | | | |
| Manufacturer's Name | Emergency Telephone Number | | |
| Address (Number, Street, City, State, and ZIP Code) | Telephone Number for Information | | |
| | Date Prepared | | |
| | Signature of Preparer (optional) | | |
| Section II—Hazardous Ingredients/Identity Information | | | |
| Hazardous Components (Specific Chemical Identity; Common Name(s)) | OSHA PEL | ACGIH TLV | Other Limits Recommended % (optional) |
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| Section III—Physical/Chemical Characteristics | | | |
| Boiling Point | Specific Gravity (H ₂ O = 1) | | |
| Vapor Pressure (mm Hg) | Melting Point | | |
| Vapor Density (AIR = 1) | Evaporation Rate (Butyl Acetate = 1) | | |
| Solubility in Water | | | |
| Appearance and Odor | | | |
| Section IV—Fire and Explosion Hazard Data | | | |
| Flash Point (Method Used) | Flammable Limits | LEL | UEL |
| Extinguishing Media | | | |
| Special Fire Fighting Procedures | | | |
| Unusual Fire and Explosion Hazards | | | |
| (Reproduce locally) | | OSHA 174, Sept. 1985 | |

The MSDS covers:



I. Identity.

Manufacturer name and address and/or supplier's information, emergency phone number, and date prepared.

II. Hazardous ingredients.

You'll find the substance's hazardous ingredients. Worker exposure limits to the chemical, such as the OSHA PEL, ACGIH TLV, and other recommended limits are also included.



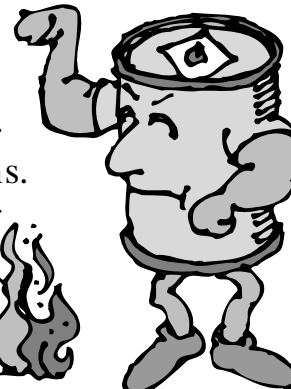
The only time you won't find the specific ingredients of a chemical is when it's protected as a trade secret. But the MSDS will still tell you about its hazards and the safety measures required.

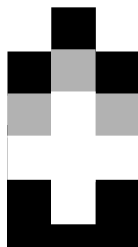


III. Physical and chemical characteristics.

- ✦ Boiling point
- ✦ Vapor pressure
- ✦ Vapor density
- ✦ Melting point
- ✦ Evaporation rate
- ✦ Water solubility
- ✦ Appearance and odor under normal conditions.

IV. Physical hazards such as fire and explosion—and ways to handle those hazards, such as firefighting equipment and procedures.





Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

Identity (As Used on Label and List)

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

| | |
|---|----------------------------------|
| Manufacturer's Name | Emergency Telephone Number |
| Address (Number, Street, City, State, and ZIP Code) | Telephone Number for Information |
| | Date Prepared |
| | Signature of Preparer (optional) |

Section II—Hazardous Ingredients/Identity Information

| Hazardous Components (Specific Chemical Identity; Common Name(s) (optional)) | OSHA PEL | ACGIH TLV | Other Limits Recommended | % |
|--|----------|-----------|--------------------------|---|
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Section III—Physical/Chemical Characteristics

| | |
|-------------------------|---|
| Boiling Point | Specific Gravity (H ₂ O = 1) |
| Vapor Pressure (mm Hg) | Melting Point |
| Vapor Density (AIR = 1) | Evaporation Rate (Butyl Acetate = 1) |
| Solubility in Water | |
| Appearance and Odor | |

Section IV—Fire and Explosion Hazard Data

| | | | |
|------------------------------------|------------------|-----|-----|
| Flash Point (Method Used) | Flammable Limits | LEL | UEL |
| Extinguishing Media | | | |
| Special Fire Fighting Procedures | | | |
| Unusual Fire and Explosion Hazards | | | |

(Reproduce locally)

OSHA 174, Sept. 1985